# TC-WA7ESA/WE505/WE605S/ WE705S/WR550Z

# **SERVICE MANUAL**

US Model

Canadian Model

AEP Model

UK Model

E Model Australian Model Chinese Model

TC-WE605S



Photo: TC-WE705S

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Model Name Using Similar Mechanism		TC-WA7ES/WR565/WE665S	
Tape Transport Machanism Type	DECK-A	TC-WE605S/WR550Z:	
	DECK- B	TC-WA7ESA/WE705S: TCM-190RB11C TC-WE505/WE605S/WR550Z: TCM-190RB12CL	

#### **SPECIFICATIONS**

System

Recording system 4-track 2-channel stereo

Fast-winding time (approx.)
90 sec. (with Sony C-60 cassette)

High-speed fast-winding time (approx.) (TC-WA7ESA and TC-WE705S only)

45 sec. (with Sony C-60 cassette)

Bias

AC bias

Signal-to-noise ratio (at peak level and weighted with Dolby NR off)
Type I tape, Sony Type I (NORMAL): 55 dB
Type II tape, Sony Type II (HIGH): 57 dB
Type IV tape, Sony Type IV (METAL): 58 dB

S/N ratio improvement (approximate values)
With Dolby B NR on: 5 dB at 1 kHz, 10 dB at 5 kHz
With Dolby C NR on: 15 dB at 500 Hz, 20 dB at 1 kHz
With Dolby S NR on (unavailable on the TC-WE505):
10 dB at 100 Hz, 24 dB at 1 kHz

Harmonic distortion

0.4% (with Type I tape, Sony Type I (NORMAL): 160 nWb/m 315 Hz, 3rd H.D.) 1.8% (with Type IV tape, Sony Type IV (METAL): 250 nWb/m 315 Hz, 3rd H.D.)

Frequency response (Dolby NR off)

Tape type				
Type I tape, Sony Type I (NORMAL)	30 - 16,000 Hz (±3 dB, IEC), 20 - 17,000 Hz (±6 dB)			
Type II tape, Sony Type II (HIGH)	30 - 17,000 Hz (±3 dB, IEC), 20 - 18,000 Hz (±6 dB)			
Type IV tape, Sony Type IV (METAL)	30 - 19,000 Hz (±3 dB, IEC), 20 - 20,000 Hz (±6 dB), 30 - 13,000 Hz (±3 dB, -4 dB recording)			

Continued on page 2 -





#### Wow and flutter

TC-WA7ESA/WE705S/WE605S/ WR550Z	TC-WESOS	
±0.13% W. Peak (IEC)	±0.14% W. Peak (IEC)	
0.07% W. RMS (NAB)	0.08% W. RMS (NAB)	
±0.18% W. Peak (DIN)	±0.19% W. Peak (DIN)	

Variable pitch range (approx.) (TC-WE705S and TC-WE505 only) -30 to +30%

Inputs

Line inputs (phono jacks)

Sensitivity: 0.16 V

Input impedance: 47 kilohms

Outputs

Line outputs (phono jacks)

Rated output level: 0.5 V at a load impedance of

47 kilohms

Load impedance: Over 10 kilohms

Headphones (stereo phone jack)
Output level: 0.25 mW at a load impedance of

32 ohms

#### General

#### Power requirements

Where purchased	Power requirements
US, Canadian, Panama model	120V AC, 60Hz
AEP, UK, German, Malaysia, Singapore, Chinese model	220 - 230V AC, 50/60Hz
Australian model	240V AC, 50/60Hz
E model	120/220/240V AC, 50/60Hz

Power consumption

26W

Dimensions (approx) (w/h/d)
UK, and Australian model:

430 × 120 × 303 mm (w/h/d) (17 × 4 3/4 × 12 inches) EXCEPT UK, Australian model: 430 × 120 × 290 mm (w/h/d) (17 × 4 <sup>3</sup>/<sub>4</sub> × 11 <sup>1</sup>/<sub>2</sub> inches) including projecting parts and controls

Mass (approx.)

4.2 kg (9 lbs 5 oz)

Supplied accessories

Audio connecting cords (2 phono plugs - 2 phono plugs) (2)

Remote commander (RM-J910) (1):

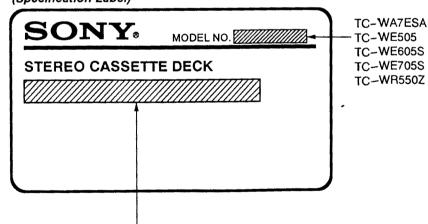
(WA7ESA: Canadian model)

Design and specifications are subject to change without notice.

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#### MODEL IDENTIFICATION (Specification Label)



US, Canadian, Panama model : AC 120V 60Hz Australian model : AC 240V~50/60Hz

AEP, UK, Malaysia, Singapore,

Chinese, German model: AC 220-230V~50/60Hz E model: AC120/220/240V~50/60Hz

#### SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

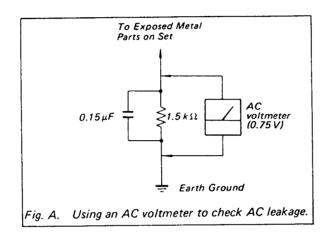
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

#### LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- 1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instru-
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate lowvoltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)



#### SAFETY-RELATED COMPONENT WARNING!!

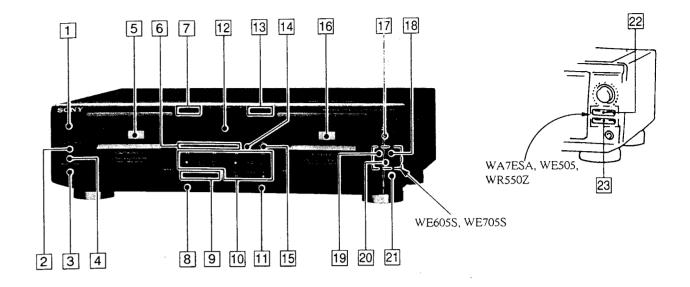
COMPONENTS IDENTIFIED BY MARK ! OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUB-LISHED BY SONY.

#### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM-POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

#### **SECTION 1 GENERAL**

#### 1-1. IDENTIFYING THE PARTS



#### FRONT PANEL

- 1 POWER switch
- 2 DIRECTION MODE switch
- 3 PITCH control
- 4 PITCH control ON/OFF switch
- 5 Deck-A
- 6 RMS operation buttons RMS/START buttons SET buttons CHECK buttons DISPLAY buttons
- 7 COUNTER buttons (deck-A) RESET button MEMORY button
- 8 ≜ (eject) button (deck-A)
- 9 DOLBY NR switches OFF/ON/FILTER ON switch B/C/S switch
- 10 Tape operation buttons
- ◄ (leftward fastwinding)/AMS \*\*/ RMS" - button
- ►► (rightward fastwinding)/AMS "/ RMS" +button
- (stop)/(RMS") CLEAR button (reverse play)/(RMS\*) BACK
- (forward play)/(RMS") FRONT button
- II PAUSE button
- O REC MUTE (record muting) button
- REC (record muting) button

- [1]  $\triangleq$  (eject) button (deck-B)
- 12 Display panel
- 13 COUNTER buttons (deck-B) RESET button MEMORY button
- AUTO CAL button
- [15] SYNCHRO DUBBING buttons HIGH button NORMAL button
- 16 Deck-B
- [17] AUTO REC (recording) LEVEL control
- 18 ARL button
- FADER button
- 20 SYNCHRO button
- [2] PHONES jack (stereo phone jack)
- 2 ARL button
- (WA7ESA, WE505, WR550Z) FADER button

(WE605S, WE705S)

- "Random Music Sensor
- "Automatic Music Sensor

## SECTION 2 DISASSEMBLY

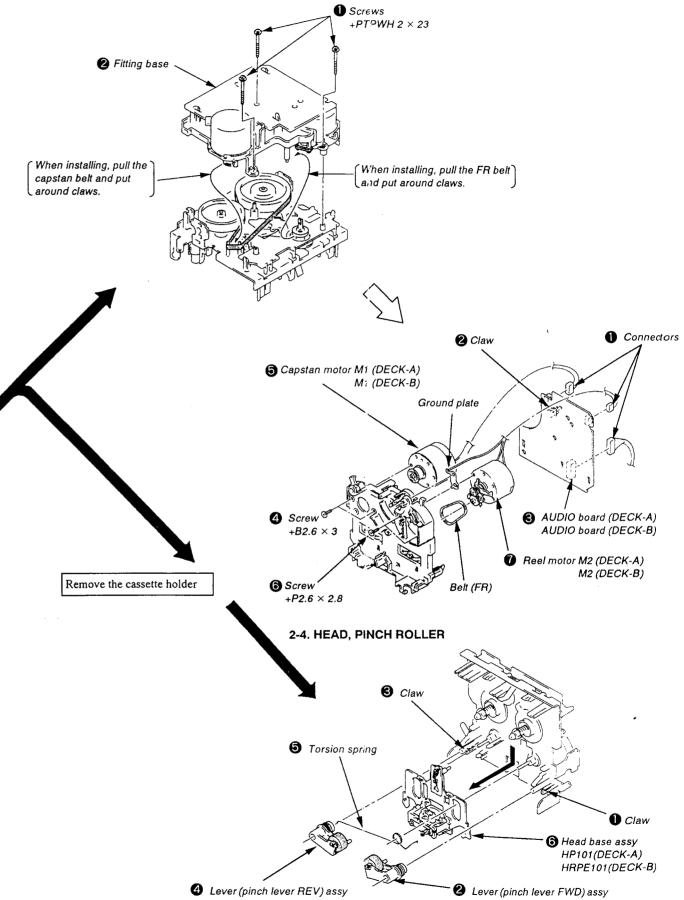
### Note: Follow the disassembly procedure in the numerical order given. CASE Unscrew the four case attachment screws M3 × 8 and remove the case. 2 Fitting base 2-1. FRONT PANEL REMOVAL WE605S : E model only FRONT PANEL 1 - 12 1 Screws +BVTP 3 × 8 VOLTAGE SELECTOR 1 - 2 2 S701 ( When installing, pull the VOLTAGE SELECTOR capstan belt and put around claws. 4 From power switch board Audio board CNP30 (2pin) CN002 (2pin) (WE505, WE705S) (WE505, WE705S only) **⑤** Wire (flat type) (7core) (WE505, WE605S, WR550Z) **O** CN807 Wire (flat type) (9core) . (WE7ESA, WE705S) (5pin) (CN801 (6pin) (WA7ESA, WE605, WR550Z) 🛈 Screw +BVTP 3 × 8 - (3) CN803 (7pin) 7 CN806 (5pin) 2 Screws +BVTT 3 × 6 (6) Wire (flat type) (7core) (WE505, WE605S, WR550Z) Wire (flat type) (9core) (WE7ESA, WE705S) 3 Screws +BVTT 3 × 6 Wire (flat type) (41core) 2-2. MECHANISM DECK Press the EJECT button. Remove the cassette holder 2 Cassette lid Screw

+BVTP 2.6 × 8

+BVTP 2.6 × 8

Screws

#### 2-3. CAPSTAN MOTOR, REEL MOTOR



6 Mechanism deck

## SECTION 3 ADJUSTMENTS

#### 3-1. MECHANICAL ADJUSTMENTS

#### **PRECAUTION**

1. Clean the following parts with a denatured alcohol-moistened swab:

record/playback/erase head rubber belts

pinch roller

idlers

capstan

- 2. Demagnetize the record/playback head with a head demagnetizer.
- 3. Do not use a magnetized screwdriver for the adjustment.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

#### Torque Measurement

Torque	Torque meter	Meter reading		
Forward	CQ-102C	30 to 65g • cm (0.42 to 0.9 oz • inch)		
Forward back	CO-102C	DECK-A: 1 to 6g • cm (0.014 to 0.083 oz • inch)		
tension		DECK-B: 2 to 9g • cm (0.03 to 0.12 oz • inch)		
Reverse	CQ-102RC	30 to 65g • cm (0.42 to 0.9 oz • inch)		
Reverse back tension	CQ-102RC	1 to 6g • cm (0.014 to 0.083 oz • inch)		
FF/REW	CQ-201B	70 to 120g*cm (0.98 to 1.66 oz*inch)		

#### 3-2. ELECTRICAL ADJUSTMENTS

#### **PRECAUTION**

- 1. The adjustment should be performed in the publication. (Be sure to male playback adjustment at first.)
- 2. The adjustments and measurement should be performed for both L-CH and R-CH.
  - Switch position

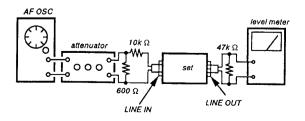
DOLBY NR switch

: OFF

• Standard record position:

Deliver the standard input signal level to input jack and set the REC LEVEL control to obtain the standard output signal level as follows.

#### - Record Mode -



#### Standard Input Level

Input terminal	LINE IN		
source impedance	10k Ω		
input signal level	0.5V ( - 3.8dB)		

#### Standard Output Level

Output terminal	LINE OUT	
load impedance	47k Ω	
output signal level	0.5V ( - 3.8dB)	

#### Test Tape

Tape	Contents		Use
P-4-A100	10kHz, -	- 10dB	Azimuth Adjustment
P-4-L300	315Hz,	0dB	PB Level Adjustment
WS-48B	3kHz,	0dB	Tape Speed Adjustment

0dB=0.775V

#### **Test Mode**

1. Insert a short-circuit plug into TP801 (2P) and turn ON the power switch.

At first, all the fluorescent tubes light up, then the system returns to normal display. (However, "0,00" is not displayed on the counter.)

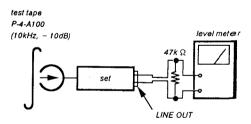
- 2. To release the test mode, remove the short plug and turn off the power switch.
- 3. Remove the short plug after completion of adjustment.

#### Record/Playback Head Azimuth Adjustment

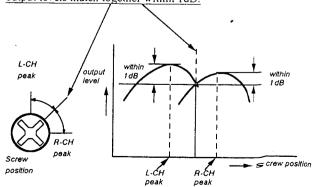
DECK-A DECK-B

#### Procedure:

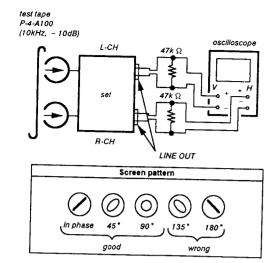
1. Forward playback Mode



2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.

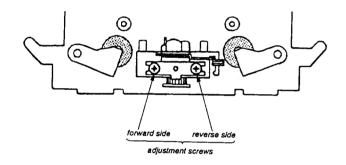


#### 3. Playback Mode

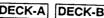


- 4. Change the reveres playback mode and repeat the steps 1 to 3.
- 5. After the adjustment, lock the adjustment screws with suitable locking compound.

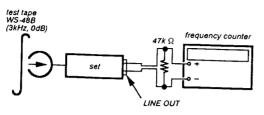
### Adjustment Location: - record/playback head -



#### Tape Speed Adjustment | DECK-A | DECK-B Procedure:



- Forward Playback Mode -



(High speed adjustment)

- 1. Set to test mode. (Refer to page 7)
- 2. Set to FWD playback mode.
- 3. Keep on pressing the HIGH SPEED DUBBING switch.
- 4. Adjust RV72 so that the frequency counter reading becomes  $6,000 \pm 20$ Hz.
- 5. Release test mode after adjustment is completed.

(Normal speed adjustment)

- 1. Set to FWD playback mode.
- 2. Adjust RV71 so that the frequency counter reading becomes  $3,000 \pm 10$ Hz.

(Pitch control adjustment) (TC-WE505/WE705S only)

- 1. Turn ON the PITCH CONTROL switch.
- 2. Set RV902 to mechanical center.
- 3. Set to FWD playback mode.
- 4. Adjust RV601 so that the frequency counter reading becomes  $3,000 \pm 10$ Hz.

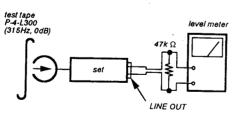
Frequency difference between the beginning and the end of the tape should be within 3%.

Frequency difference between the deck A and deck B the beginning of the tape should be within 1.5%.

Adjustment Location: AUDIO board, MAIN board. (See page 10)

#### Playback Level Adjustment | DECK-A | DECK-B Procedure:

- Forward Playback Mode -



Adjust RV11(L-CH) and RV21(R-CH) so the level meter reading becomes the adjustment limits below.

#### Adjustment Value:

LINE OUT level :  $-7.7 \pm 0.5$ dB (0.301 to 0.338V)

Level difference between channels: within 0.5dB

Confirm the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

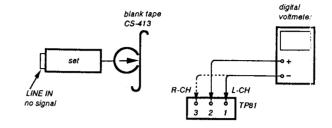
Adjustment Location: AUDIO board. (See page 10)

#### Bias Consumption Current Adjustment DECK-B

This adjustment should be performed when replacing the head assy or the bias oscillating transformer (T81, T91).

#### Procedure:

⟨ ⟩: R-CH



- 1. Connect the digital voltmeter to test point TP81.
- 2. Set RV81(RV91) to mechanical center.
- 3. Set to FWD record mode.
- 4. Adjust T81 $\langle$ T91 $\rangle$  so that the digital voltmeter reading becomes minimum.

Adjustment Value: Maximum 220mV

Adjustment Location: AUDIO board. (See page 10)

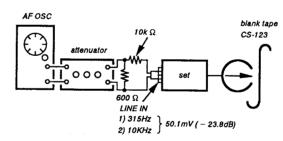
### Record Bias Adjustment DECK-B

Setting:

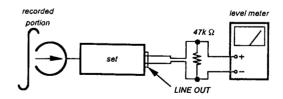
REC LEVEL control: standard record position (Refer to page 7.)

#### Procedure:

1. Record Mode



#### 2. Playback Mode



Confirm that the 10kHz playback output is 0 ± 0.5dB relative to the 315Hz output. If necessary, adjust RV81 (L-CH), RV91(R-CH) and repeat the steps given above.

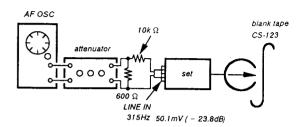
Adjustment Location: AUDIO board. (See page 10)

## Record Level Adjustment DECK-B

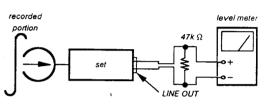
REC LEVEL control: standard record position (Refer to page 7.)

#### Procedure:

1. Record Mode



#### 2. Playback Mode



Confirm playback the tape recorded become adjustment level as

If necessary, adjust RV101(L-CH), RV201(R-CH) and repeat the steps 1 and 2.

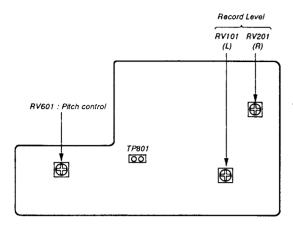
#### Adjustment Value:

LINE OUT level:  $-23.8 \pm 0.5 dB (47.2 to 53 mV)$ 

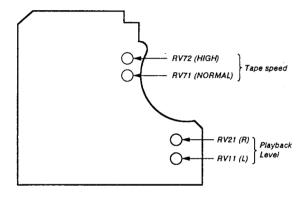
Adjustment Location: MAIN board. (See page 10)

#### - Adjustment Parts Location Diagrams -

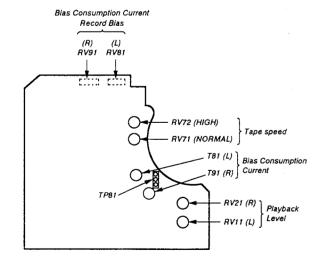
#### [MAIN BOARD]



## DECK-A: [AUDIO BOARD]



## DECK-B: [AUDIO BOARD]



# SECTION 4 EXPLANATION OF IC TERMINALS

#### IC801 CXP8224-043Q (SYSTEM CONTROL/VFD DRIVE)

Pin No.	P8224-043Q (SYSTEM	I/O	Description	
	Pin name			
1	A STOP SW	I	Mechanism stop switch for deck-A. H: Stop	
2	VERSION	]	Virsion select terminal.	
3	TEST	I	Test mode select terminal. L: Test	
4	SIRCS	I	Sircs signal input terminal.	
5	AMS IN	I	AMS signal input terminal. L: Music present.	
6	VOL OUT	0	REC level control output (PWM).	
7	SEL A/B	0	Playback A/B selector. L: A, H: B	
8	CONTROL A IN	I	Control A input.	
9	CONTROL A OUT	0	Control A output.	
10	GP CAL 0	0	GEQ CAL-0 output for auto calibration.	
11	GP CAL 1	0	GEQ CAL-1 output for auto calibration.	
12	REC CAL 0	0	Recording CAL-0 output for auto calibration.	
13	REC COL 1	0	Recording CAL-1 output for auto calibration.	
14	POWER IN	I	Power OFF Detection terminal.	
15	REC EQ H/L	0	REC EQ high/normal select. L: Normal.	
16	CAL/OFF, B, C/S	0	Audio Selector. H: CAL/Open: NR-OFF, B, C/L: NR-S.	
17	DOLBY C/B/OFF	0 .	Dolby NR Selector. H: C/Open: B/L: OFF.	
18	REC MUTE	0	Recording mute output. L: Mute ON, H: Mute OFF.	
19	POWER OUT	0	Power hold output.	
20	REC/PB	0	Dolby NR mode selector. L: Playback, H: Record.	
21	PASS/MUTE/DOLBY	0	Audio selector. L: Dolby/Open: Mute/H: Pass.	
22	BS/AMS/OFF	0	AMS amp selector. L: OFF/Open: AMS/H: OFF.	
23	BIAS	0	Bias ON/OFF output. L: OFF, H: ON.	
24	RELAY	0	Relay record/playback selector. L: Record.	
25	B STOP SW	I	Mechanism stop switch for deck-B.	
26	B METAL	I	Deck-B metal tape detection.	
27	B 70/120	I	70/120 μ tape selector (deck-B). L: with claw.	
28	B S-REEL IN	I	Supply reel rotation detection at deck-B.	
29	B S-REEL OUT	0	Supply reel rotation detection at deck-B.	
30	B T-REEL IN	I	Take-up reel rotation detection at deck-B.	
31	B T-REEL OUT	0	Take-up reel rotation detection at deck-B.	
32	B-HALF	I	Half pawl input at deck-B. (A/B converter)	
33	KEY I	I	KEY 1 input (A/D converter).	
34	KEY 2	1	KEY 2 input (A/D converter).	
35	KEY 3	I	KEY 3 input (A/D converter).	
36	KEY 4	I	KEY 4 input (A/D converter).	
37	VOL IN	I	Record volume input. (A/D converter)	
38	RESET	I	System reset input terminal.	
39	EXTAL	I	System clock oscillator input. (10.0MHz)	
40	EXTAL	0	System clock oscillator output. (10.0MHz)	

Pin No.	Pin name	1/0	Description	
41	Vss		Ground.	
42	TX		Not used. (Ground connection)	
43	TEX	-	Not used. (Ground connection)	
44	METER L	l	Meter L-CH input. (A/D converter)	
45	METER R	I	Meter R-CH input. (A/D converter)	
46	AVREF	I	Reference voltage input for A/D converter.	
47	AVss	_	Ground for A/D converter.	
48	LED (ARL)	0	ARL LED ON/OFF driver. H: ON.	
49	LED (SYNC)	0	CD synchro LED ON/OFF drive. H: ON.	
50	OSC H/L	0	OSC frequency H/L selection for auto calibration.	
51	OSC ON/OFF	0	OSC ON/OFF output for auto calibration.	
52	BIAS CAL 0	0	EQ bias CAL-0 output for auto calibration.	
53	BIAS CAL 1	0	EQ bias CAL-1 output for auto calibration.	
54	BIAS CAL 2	0	EQ bias CAL-2 output for auto calibration.	
55	BIAS CAL 3	0	EQ bias CAL-3 output for auto calibration.	
56	A CAP. M	0	Capastan motor ON/OFF control at deck-A. H: ON.	
57	B CAP. M	0	Capastan motor ON/OFF control at deck-B. H: ON.	
58	CAP. M H/L	0	Capastan motor high/normal selector. L: High.	
59	PITCH. CON ON/OFF	0	Pitch control ON/OFF. H: ON.	
60	LINE MUTE	0	Line mute ON/OFF output. L: Mute.	
61 - 77	P17 – P1	0	VFD segment drive.	
78 - 85	G1 – G8	0		
86	G6, G7	0	VFD grid drive.	
87	G7, G8	0		
88	VFDP	_	VFD power. ( - 28V)	
89	V <sub>DD</sub>		Power supply. (+5V)	
90	NC		Not used. (VDD connection)	
91	Vss		Ground.	
92	REELB+	0	Reel motor (+) output at deck-B.	
93	REEL B -	0	Reel motor ( - ) output at deck-B.	
94	REELA +	0	Reel motor (+) output at deck-A.	
95	REEL A -	0	Reel motor ( - ) output at deck-A.	
96	A T-REEL OUT	0	Take-up reel rotation detection at deck-A.	
97	A T-REEL IN	I	Take-up reel rotation detection at deck-A.	
98	A S-REEL OUT	0	Supply reel rotation detection at deck-B.	
99	A S-REEL OUT	I	Supply reel rotation detection at deck-B.	
100	A HALF	I	Half pawl input at deck-A. L: with claw.	

#### DIAGRAMS 5-1. BLOCK DIAGRAM GOLBY NR AMP ICSO1 CONTROL LPF 101 J501-1 **⊕** → LINE OUT ĐOLBY S IN L·P·F SWITCH Q101 BOLBY BAC TC-WATESA/WE605S/WE705S/WR5 C-WE605S/WE705S R-LH S936-1 BOLBY NR ON/FILTER ON OFF PB AMP IC31 ĐOLBY S B901 ( Đ902 SYNCHRO AMP IC1 MUTE DRIVE Q501 LPF | TONE NDISE 10503 Q502, 503 OSC H/L RV11 (PB LEVEL) Ð CONTROL A OUT (BECK-A) METER 1 ( CAL/OFF'B'C/S ( AMS OFF/AMS/BS ( -(4) METER L -(16) CAL/OFF+B+C/S TC-WES05/WE705S KEY 1 5928 PITCH CONTROL BS/MS/OFF PB AMP REC/PB (1 DECK-T/B (1 7 SEL A/B 10 GP CAL0 11 GP CAL1 12 REC CAL0 13 REC CAL1 RV11 (PB LEVEL) HRPE101-1 REC/PB HEAG (BECK-B) KEY 2 5921-927 REC CAL (3 (BECK-B) KEY 3 REC MUTE RV101 S AMS IN (B) REC MUTE (I) PASS/MUTE/BOLBY (I) BOLBY C/B/OFF 5931. 932. 935 TC-WE6055/WE7055 REC EQ IN THE CEC LEVEL NR OFF /B/C 5947 DIRECTION MODE RYE1 ФЕСК-А ЕФ 70/120 ФЕСК-В ЕС:∀7/: SPEEÐ H/Ñ ( RELAY BRIVE 9804 RV901 REMOTE CONTROL PECEIVER RELAY BECK-A (Cr02) <u>v</u> A S-REEL OUT ROTATION DET ICSI (DECK-A) S82 (CrO<sub>2</sub>) D B 70/120 80LBY HX-PRO [C8] BECK-B-V ... (26) B HETAL ROTATION BET ICB2 (BECK-A) BIAS CAL 10804 TAPE EQ SWITCH ICBOS A T-REEL IN (9) RV8: (REC BIAS L-CH) B S-REEL OUT ( ROTATION BET ICB1 (BECK-B) BIAS CALS REO ⋖ B T-REEL OUT ( B T-REEL IN ( ROTATION ĐET IC82 (ĐECK-B) S) BIAS CALI POWER ON/OFF Q802 POWER OUT SYSTEM CO:ITROL 10801 REEL MOTOR 9RIVE 7 1C601 (1/2) SWITCHING Q506 BIAS 09C 051-53 BIAS SWITCH Q805 BIAS REEL MOTOR BRIVE 3 1C601 (2/2) CAPSTAN MOTOR BRIVE 9603 A CAP-H TC-WA7ESA/WES05/WE705S CAPSTAN MOTOR BRIVE Q606 Đ602 RESET 10802 M1 CAPSTAN MOTOR (BECK-B) PITCH CONTROL 9807 TC-WA7:SA \_\_WE6055/WR5502 SBOI-1 Ð601 Doff ... TC-WATESA/ / WE605S/WR550Z CAPSTAN MOTOR HI/NOR Q601 G1-8 8 GLIÐ BRIVE Q801 MI CAPSTAN MOTOR (DECK-A) 586 (BECK-A) (HALF) 586 (BECK-B) (HALF) TC-WE505/WE705S RY902 RY601 PITCH CONTROL Q604

TC-VE505/1:E7055

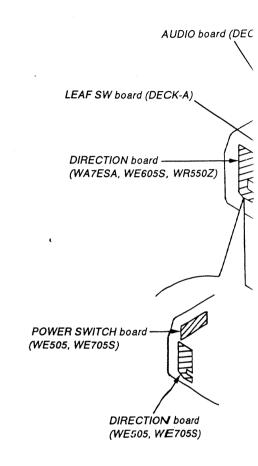
- R-CH : SAME AS L-CH-

SB1 (STOP) X801 (BECK-A)

TEST (

S81 (STOP) (BECK-B)

#### • CIRCUIT BOARDS LOCATION





⇒ : PB ( DECK A )

: PB ( DECK B )

REC ( DECK B )

Abbreviation

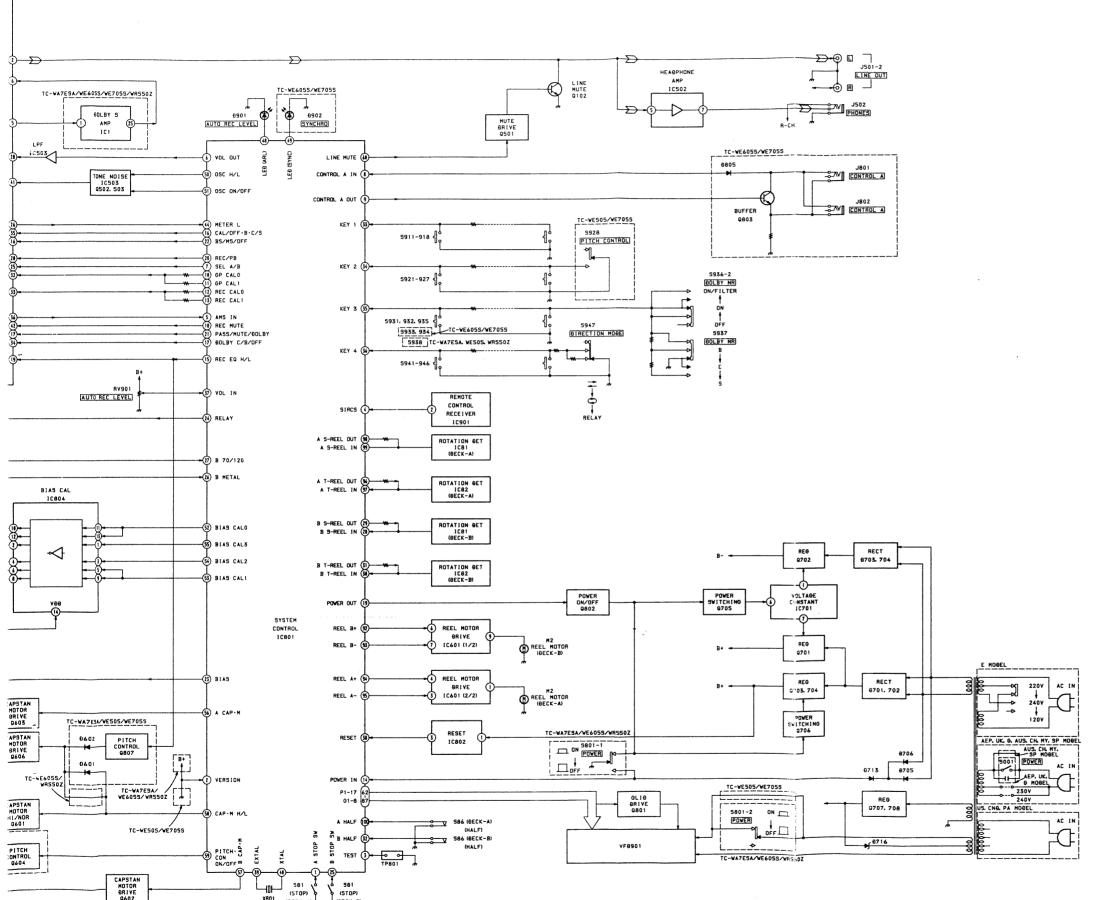
CND: Canadian
G: German
AUS: Australian
CH: Chinese

SP : Singapore

MY : Malaysia

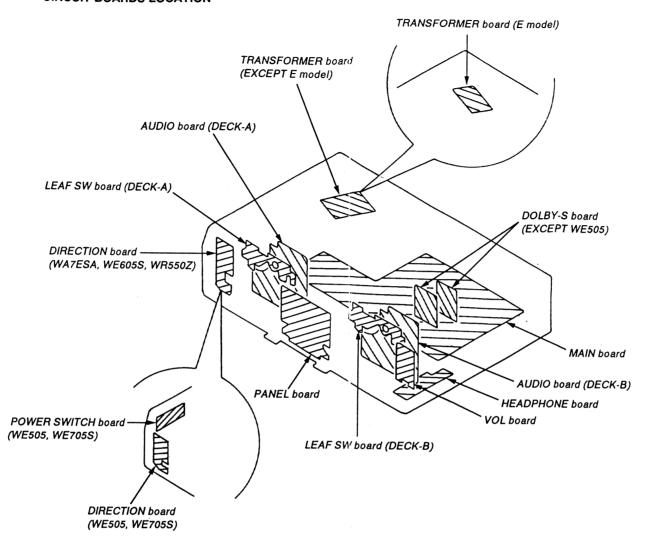
PA : Panama

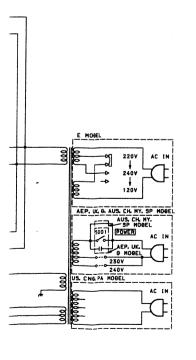
-15-



**— 14 —** 

#### • CIRCUIT BOARDS LOCATION





#### • Signal path.

: PB ( DECK A )

: PB (DECK B)
: REC (DECK B)

Abbreviation

CND : Canadian

G : German AUS : Australian

CH : Chinese

SP : Singapore

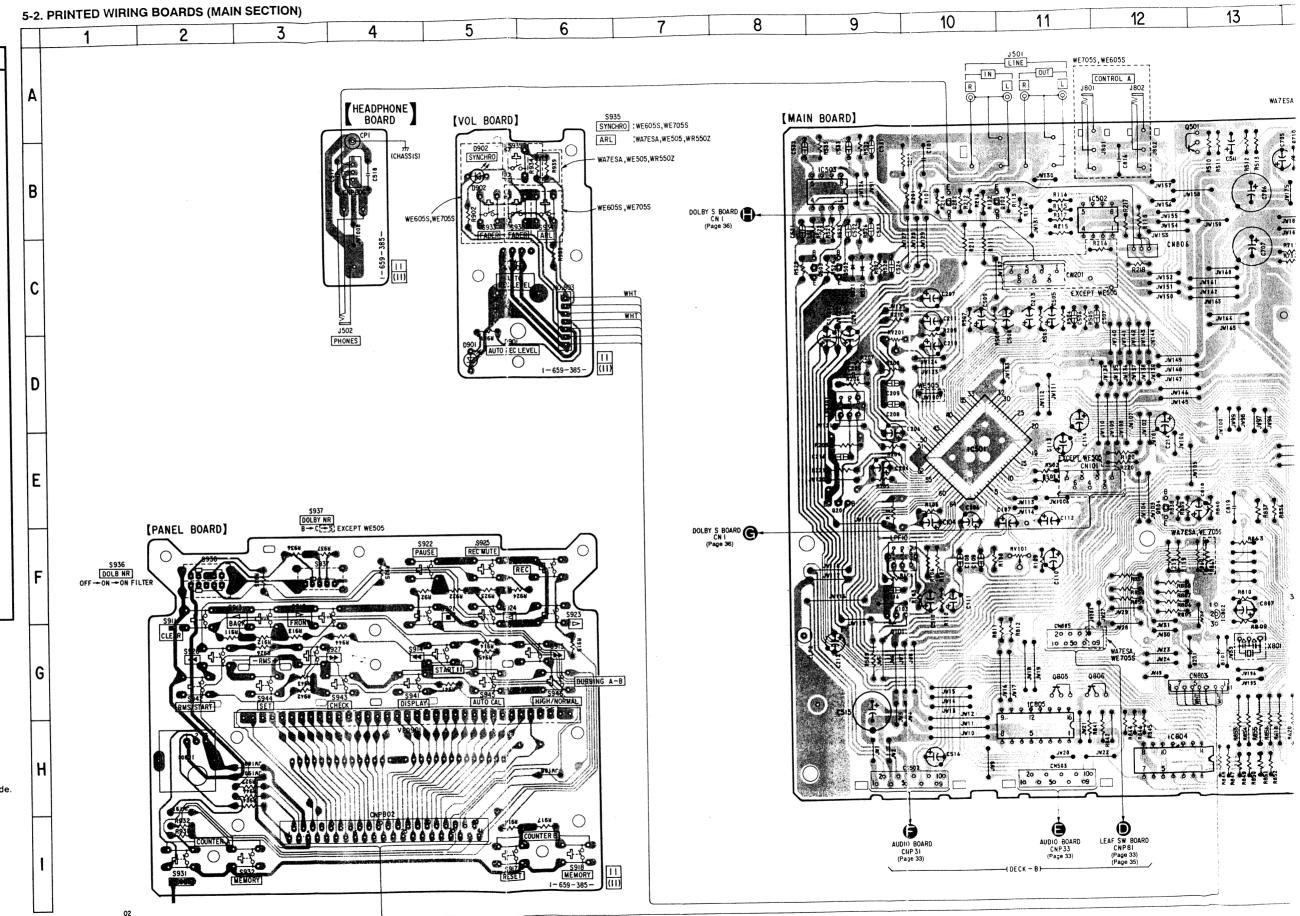
MY : Malaysia PA : Panama

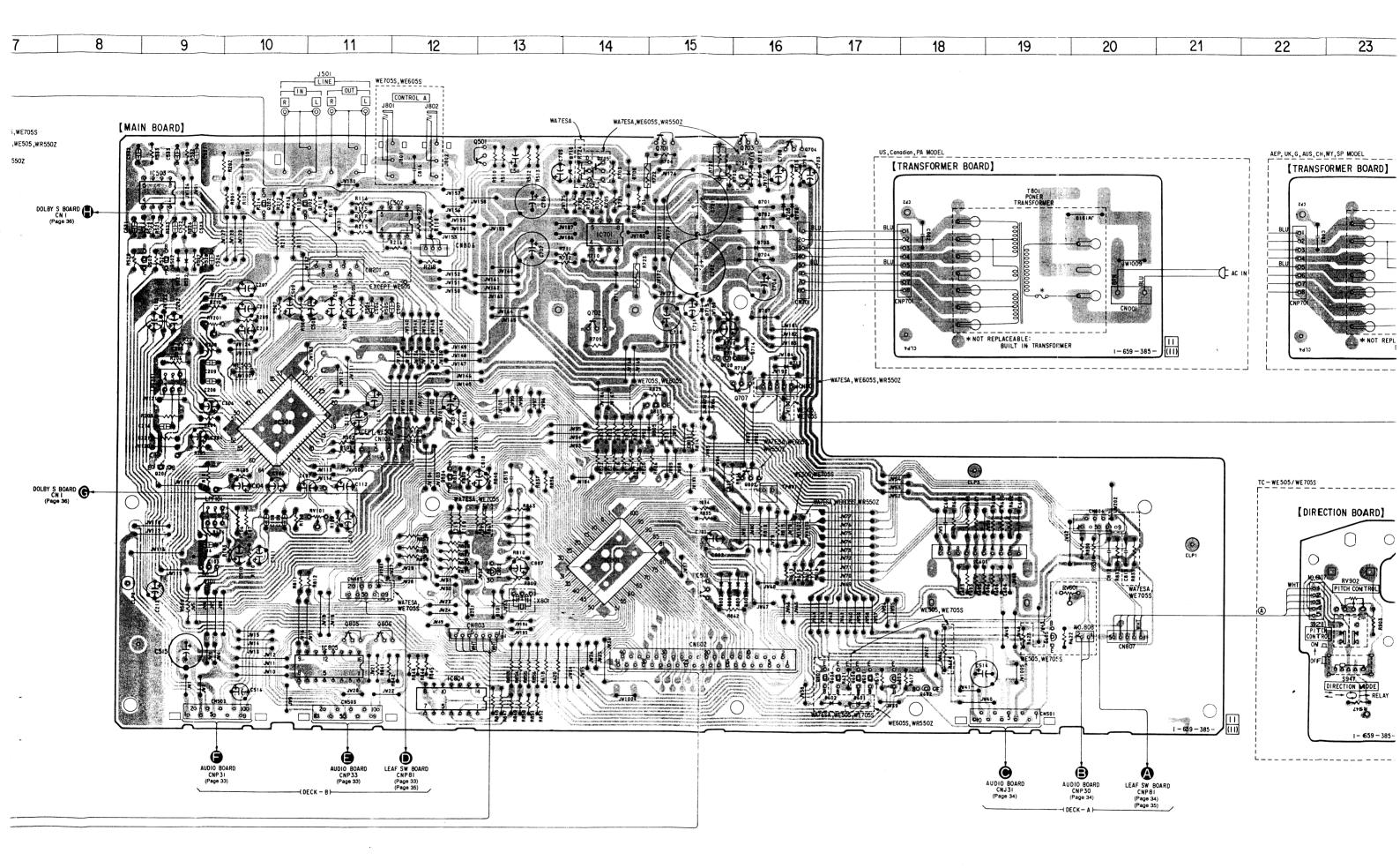
#### • SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D101	G - 13	IC801	F-14
D201	G-13	IC802	G-13
D521	C-9	IC804	H-12
D522	C-9	IC805	H-11
D601	H - 17	IC901	H-2
D602	H - 17		
D701	B-16	Q101	G-9
D702	B-16	Q102	B - 10
D703	C-16	Q201	E-9
D704	C-16	Q202	B-10
	D 40	Q501	B-13
D705 D706	B-16 B-16	Q502	G-9
D707	D-16	Q503	G-9
D708	B-14	Q601	H-17
D709	B-14	Q602	H-18
5,55		Q603	H-17
D710	B-14		
D711	C-14	Q604	H-17
D712	B-16	Q605	G - 19
D713	D-16	Q606	H-17
D714	D-16	Q701	B-15 D-14
D715	D-15	Q702	D-14
D716	D-15	Q703	B-16
D801	G-15	Q704	B-16
D802	G-15	Q705	B - 14
D803	G-16	Q706	B-16
		Q707	D-16
D804	G - 16		
D805	E-15	Q708	D-15
D901	D-5	Q709	B - 14
D902	B-2	Q801	G - 15
		Q802	E-16 E-15
10501	E-10	Q803	E-13
IC501 IC502	B-12	Q804	E-12
IC502	B-9	Q805	G-11
IC601	F-18	Q806	G-11
IC701	G-14	Q807	H-17
10.01		.11	1

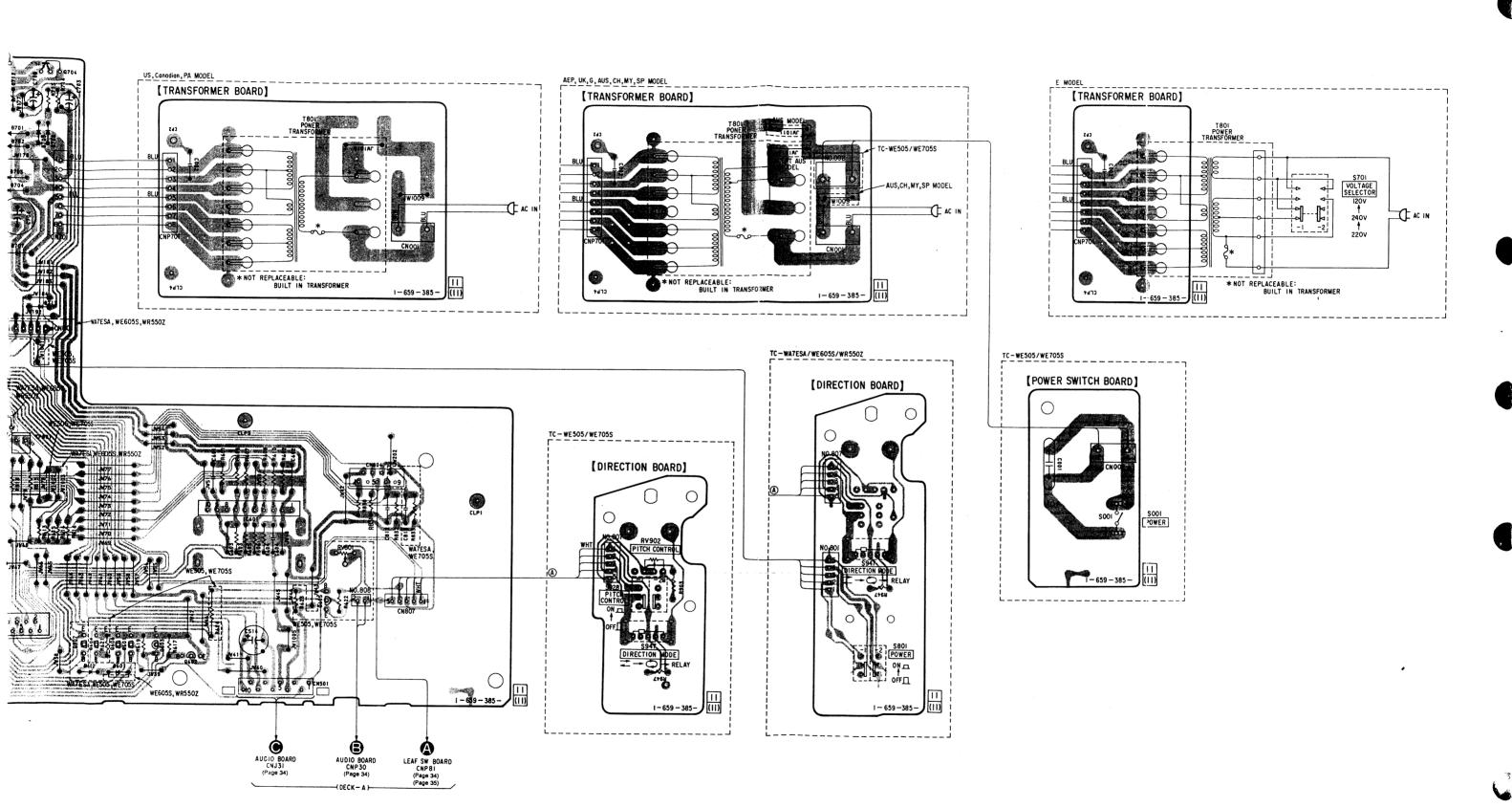
- 0---: parts extracted from the component side.

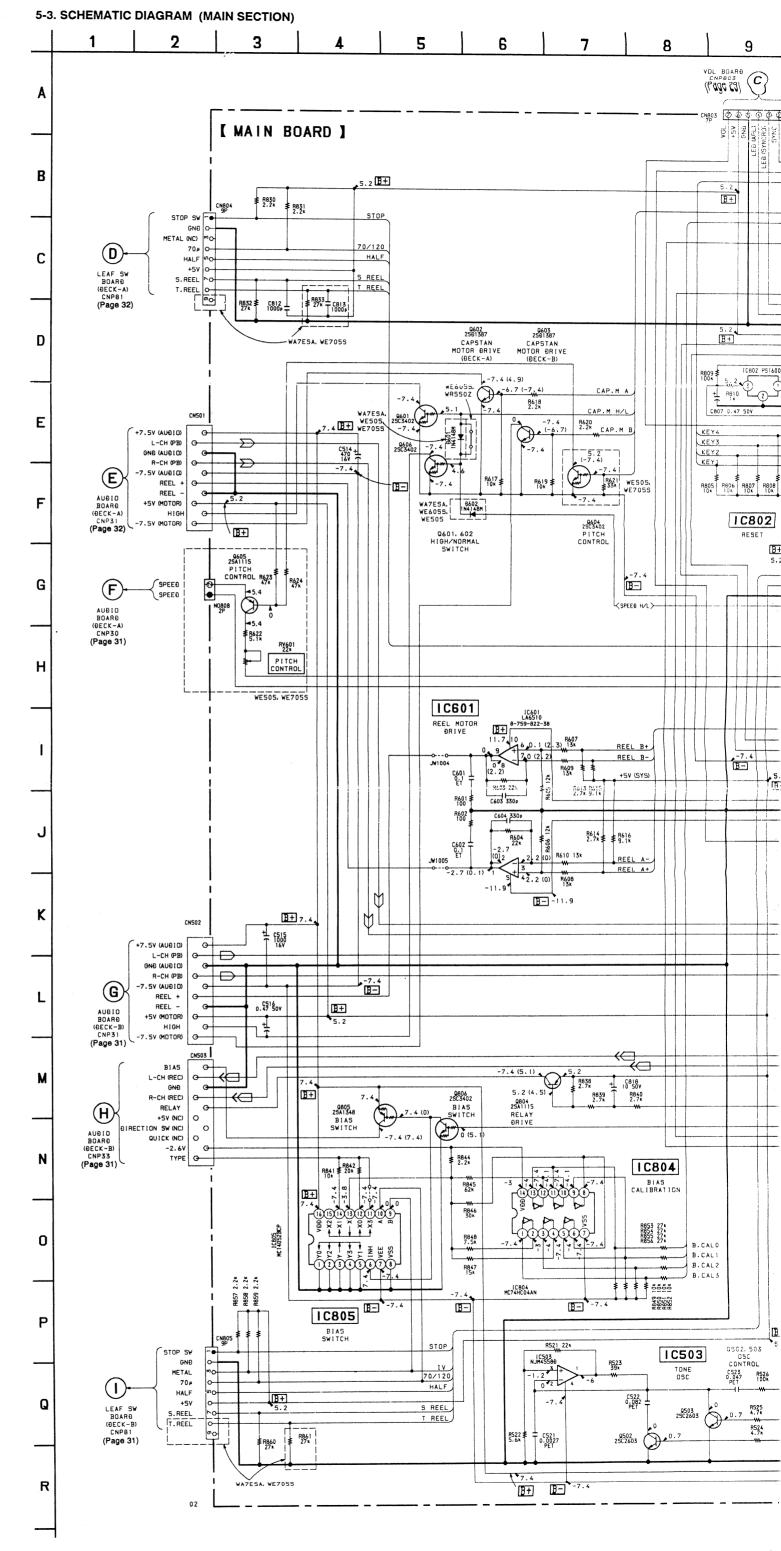
- CND : Canadian
- AUS : Australian
- CH : Chinese
- SP : Singapore
- MY : Malaysia

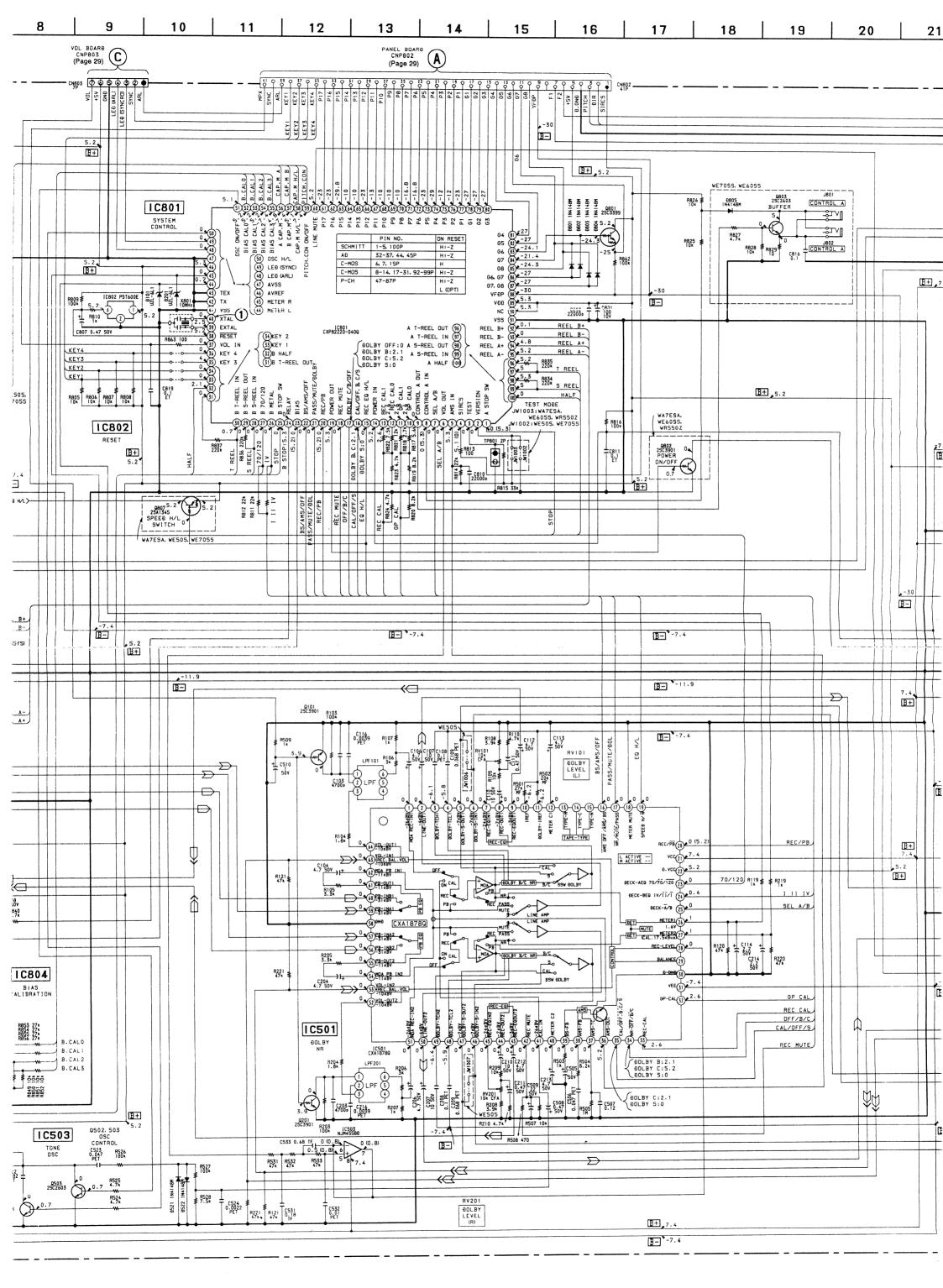


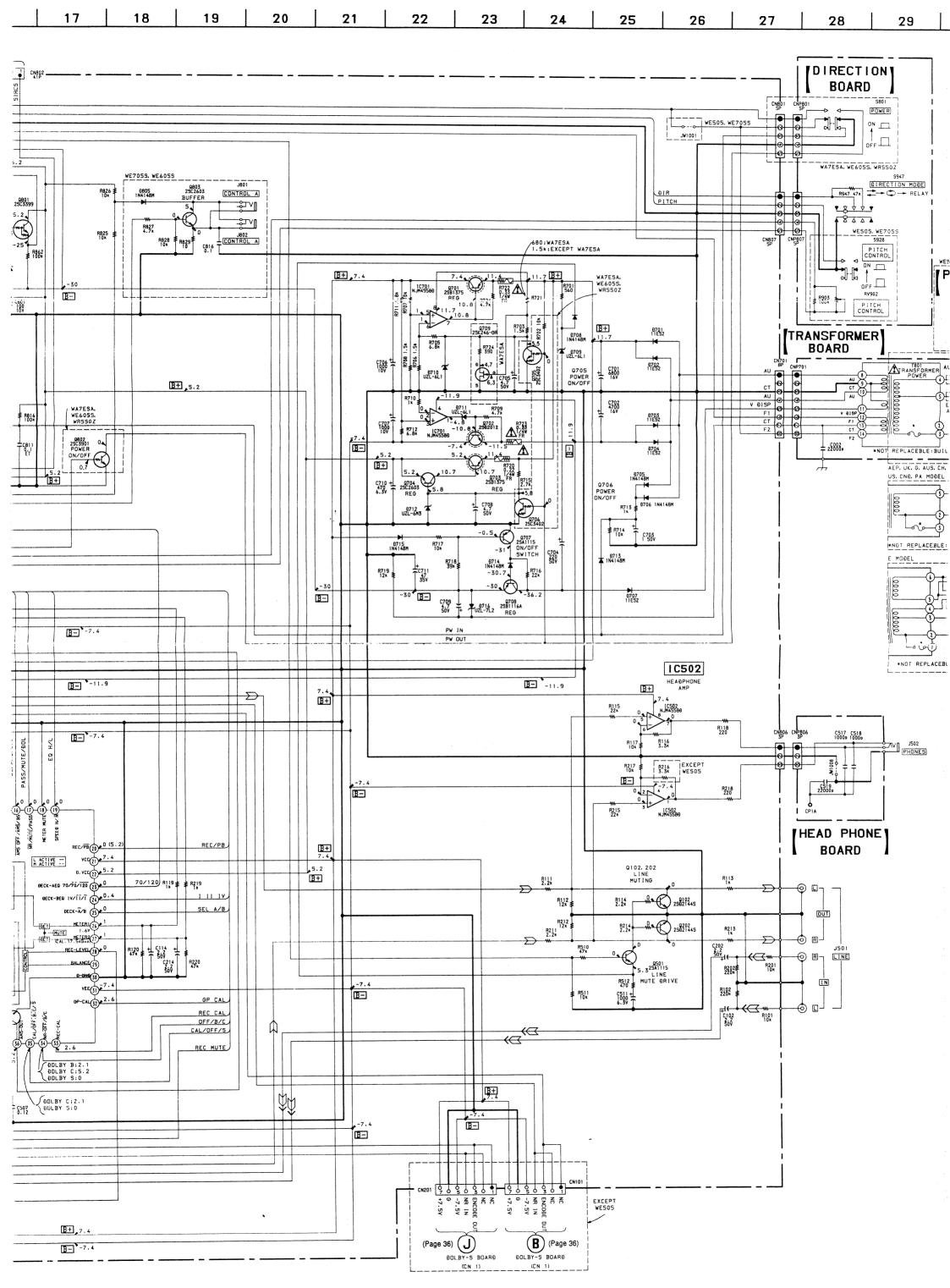


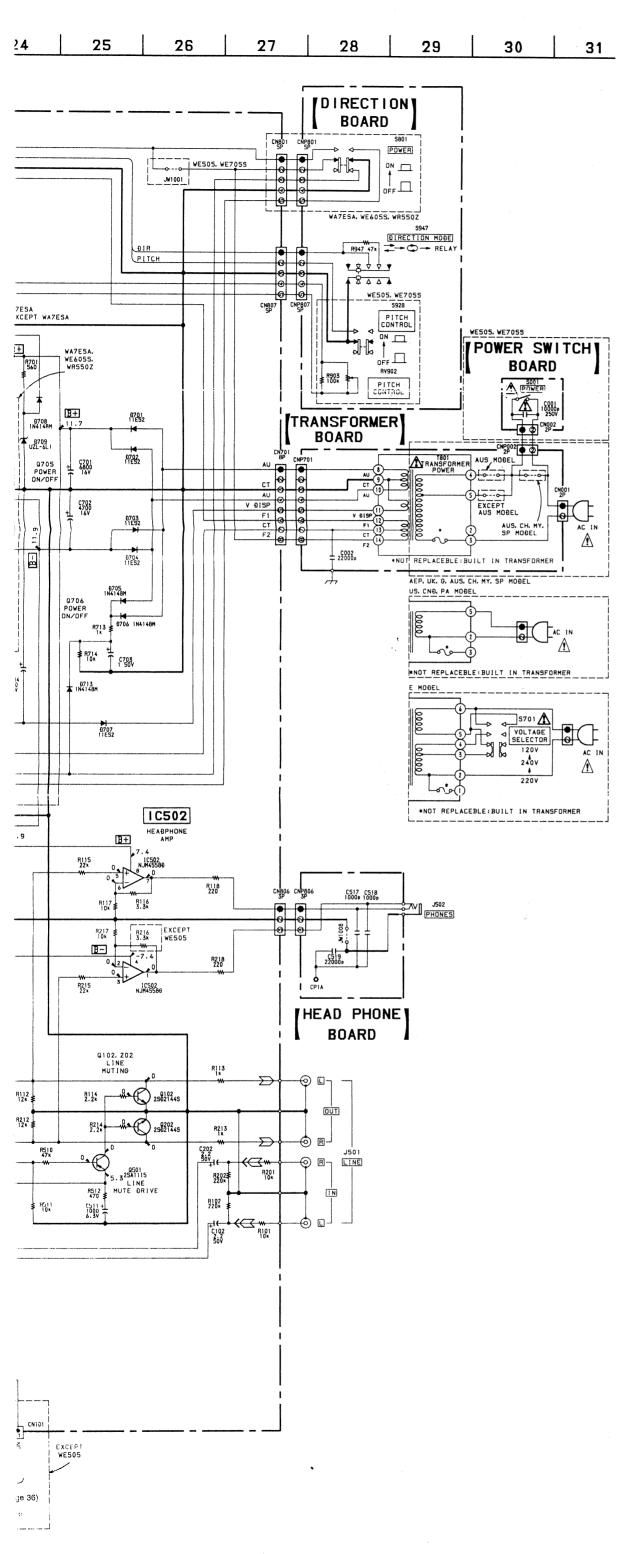
16 17 18 19 20 21	1 77	23 24	25 26	27	28	29	30	31
			20 20					J1



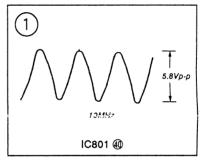








#### • WAVEFORM - MAIN SECTION -



### Note:

- $\bullet$  All capacitors are in  $\,\mu$  F unless otherwise noted. pF:  $\,\mu$   $\,\mu$  F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $1\!\!/_4W$  or less unless otherwise specified.
- $\triangle$  : internal component. · fusible resistor.

Note:

The components identified by mark  $\bigwedge$  or dotted line with mark  $\bigwedge$ are critical for safety. Replace only with part

Les composants identifiés par une marque  $\bigwedge$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spéci-

number specified. • **B+** : B+ Line

• **B** - : B - Line

: adjustment for repair.

 Voltage and waveforms are dc with respect to ground under no-signal conditions. no mark : STOP

( ):REC

• Voltages are taken with a VOM ( Input impedance 10M  $\Omega$  ). Voltage variations may be noted due to normal production tolerances.

 Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.

· Circled numbers refer to waveforms.

• Signal path.

: PB ( DECK A )

: PB ( DECK B )

REC ( DECK B )

Abbreviation

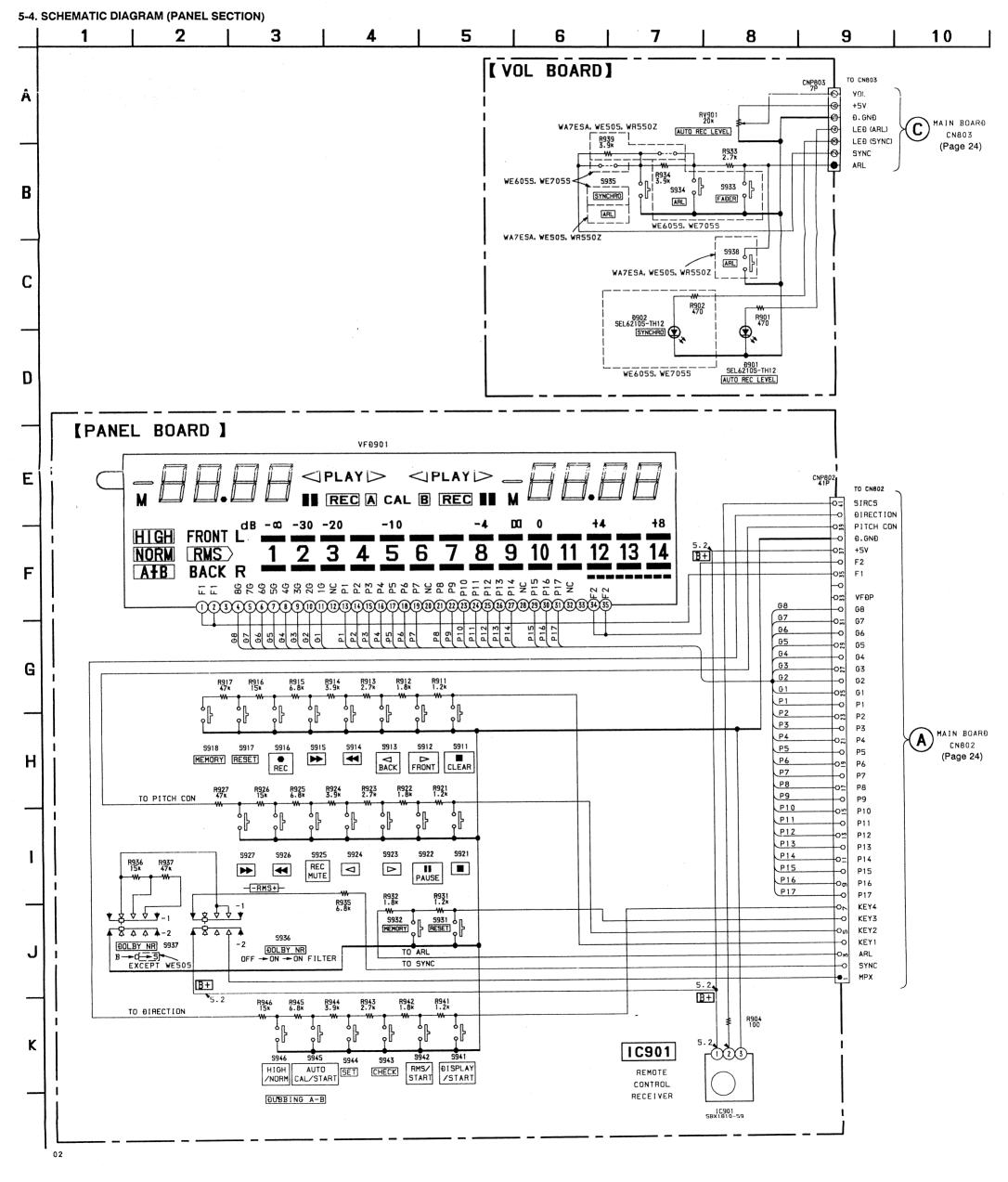
CND : Canadian G : German

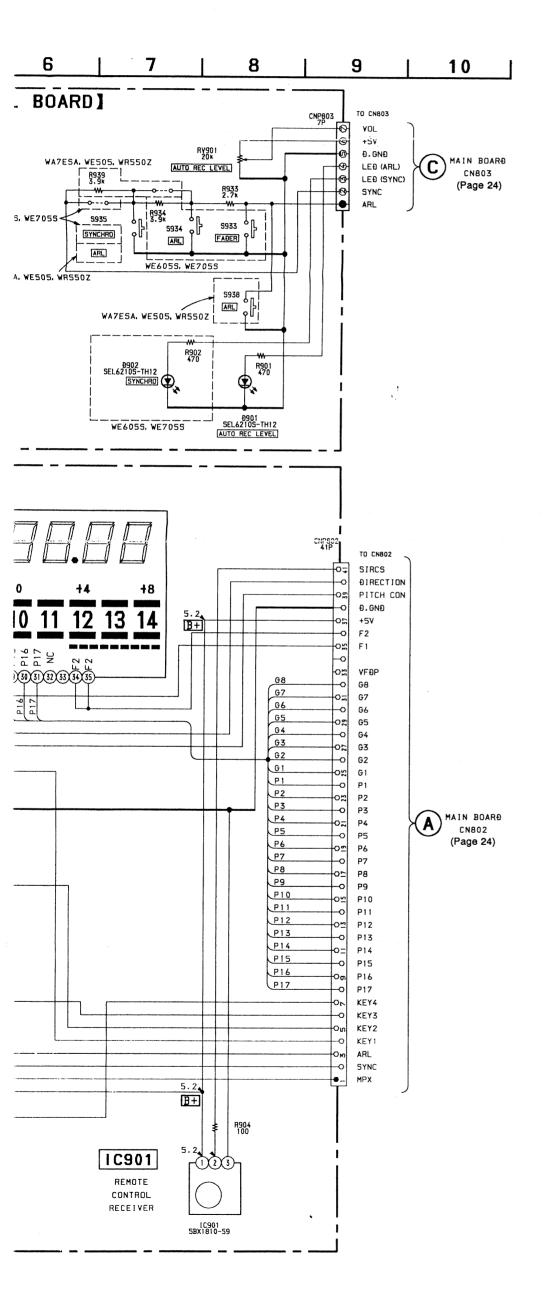
AUS : Australian

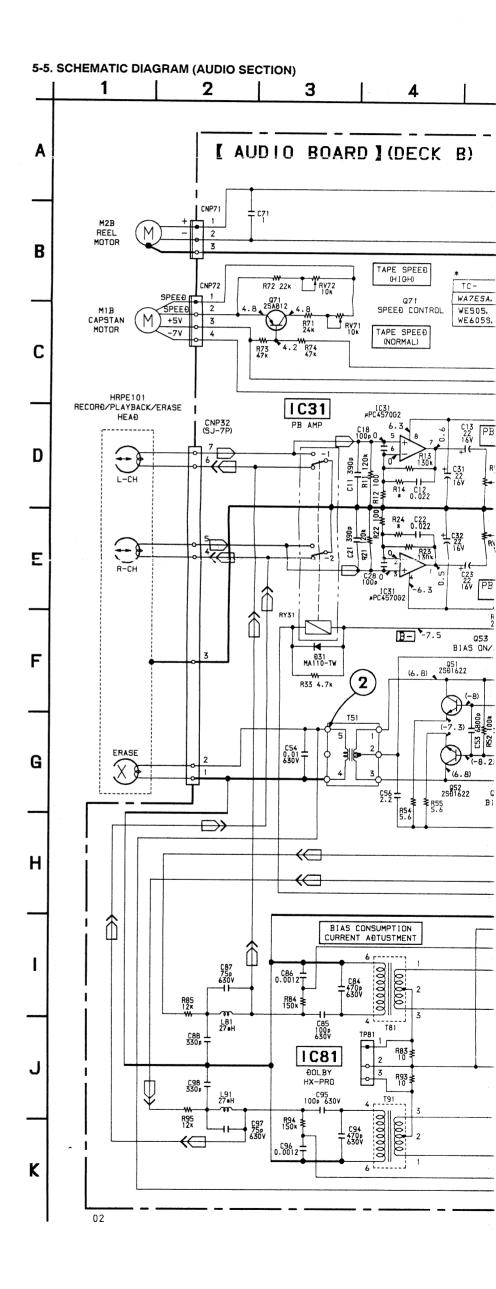
CH : Chinese

: Singapore SP

: Panama







#### Note:

- All capacitors are in  $\,\mu$  F unless otherwise noted. pF:  $\mu$   $\mu$  F 50WV or less are not indicated except for electrolytics and
- All resistors are in  $\Omega$  and 1/4W or less unless otherwise specified.
- **B+** : B+ Line
- **B** ] : B Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions. no mark : STOP
- ):REC
- Voltages are taken with a VOM ( Input impedance 10M  $\Omega$  ). Voltage variations may be noted due to normal production
- · Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production
- · Circled numbers refer to waveforms
- Signal path.
- ⇒ : PB ( DECK A )
- : REC ( DECK B )

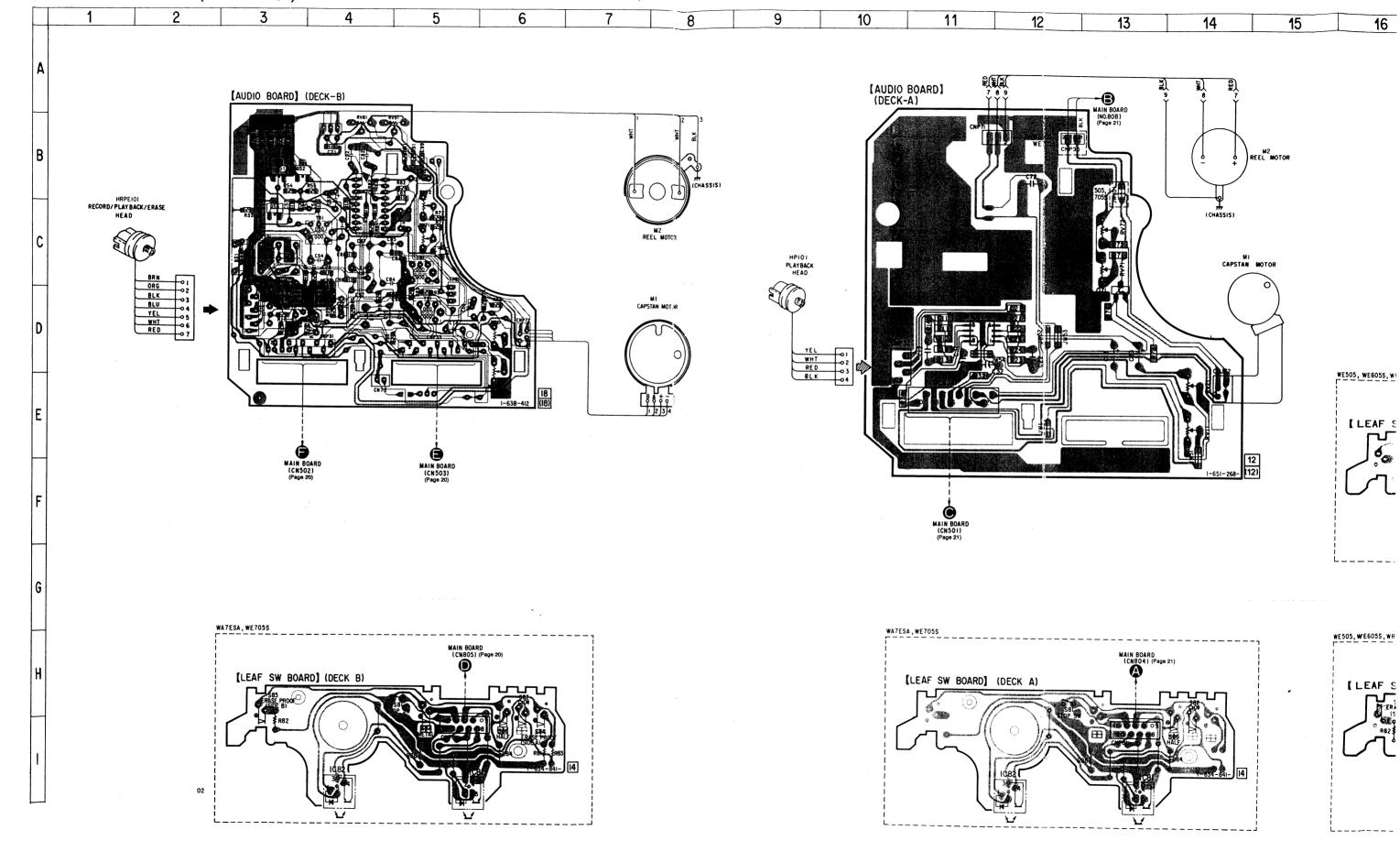
TION) 13 12 8 9 10 11 6 5 3 [LEAF SW BOARD](DECK B) DIO BOARD (DECK B) STOP ĐET CNP81 ≺STOP.SW> CrO 2 DET V METAL DET V **≺70U**≻ ERASE PROOF S84 <HALF> 1C82 **4+5V** ERASE PROOF S85 MAIN BOARÐ CN805 ROTATION DET ≺S.REEL TAPE SPEEÐ (HIGH) IC81 MJL5165K-B HALF ĐET 🄀 8 (Page 23) R72 22k RV72 R14. 24 WA7ESA, WE705S 6.2K Q71 ₹1.REEL WE505. WE605S. WR550Z SPEED CONTROL ZZ Z MJL5165K-B TAPE SPEEÐ (NORMAL) IC81 WA7ESA, WE705S [ AUDIO BOAF WA7ESA, WE705S ROTATION DET WE505, WE705S R31 220 IC31 IC31 #PC4570G2 I<sub>CNP30</sub> B+ 7.4 PB AMP (F)PB LEVEL MAIN BOARĐ B-CNP31 N0808 RV11 (Page 23) B+ 7.4 +7.5V  $\Rightarrow$ -02 L CH (PB) CNP71 GNĐ M2A R CH (PB) REEL MOTOR 2 -7.4  $(\mathbf{G})$ -7.50 3 REEL+ -06 MAIN BOARÐ CN502 (Page 23) REEL-R72 22k SPEED нотн 25AB12 R71 **O10** -7.5V (MOTOR SPEED MOTOR -71 R73 47k Q53 B1AS ON/OFF (6.7) 25816225 2.2 B- -7.5 R74 47K #31 MA110-TW (6.8) 2SB1622 **2** R33 4.7k 1 HP101 PLAYBACK HEAÐ CNP32 C54 0.01 630V C11 上 R11 390p 丁 120時 052 2501622 Q51, 52 BIAS OSC C21 T R21 CNP33 B- -7.4 BIAS L CH (REC)  $\leftarrow$ R-CH  $\longleftrightarrow$ GNÐ R CH (REC)  $\longleftrightarrow$  $\longleftrightarrow$ (H)RELAY 06 MAIN BOARĐ R14. 24 CN503 (Page 23) WA7ESA, WE7055 6.8K BIAS CONSUMPTION CURRENT AÐTUSTMENT Ов WE505. WE605S, WR550Z -7.4 ---€9 -2.67 **⊕**10 TYPE C81 0.01  $\bigcirc$ 0.0012 T 122 CNP75 2 r REC BIAS RV81 22k C85 100p 630V T81 C99 0.47 ⊢H⊢ IC81 ĐOLBY HX-PRO 7.4 100° 630V 000000 REC BIAS R-CH

R92 33k

R81 ₹

C97 755 630V

0.0012



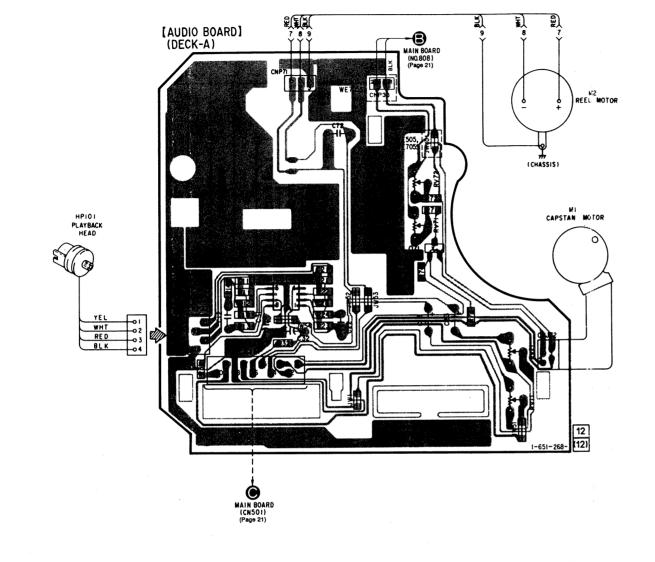
					1			4.5	1 40	47	10	1 40 '	20
_	1		40	44	40	1 47	1/1	1 45	1 16	1 1/	1 18	1 19	1 70 1 9
1 /	1 0	1 0	1()	1 11	1 12	1 13	14	1 10	10	1 11	10	10	
1	, n	7	I I U	1 1 1	1 12	1 10	,	1 10	, -	1			+

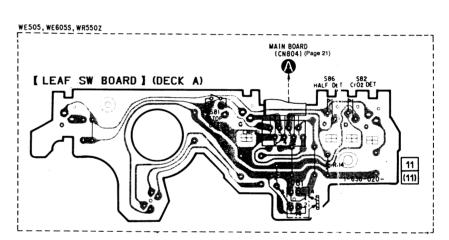
# • SEMICONDUCTOR LOCATION (DECK-A)

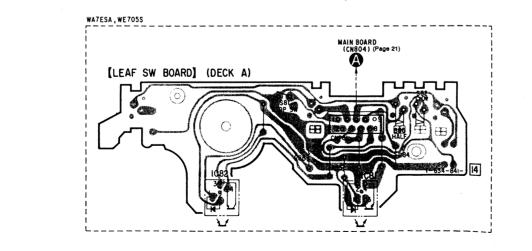
	(DECK-A)
Ref. No.	Location
IC31	D-11
IC81	F-18
(LEAF SW) IC81	l - 13
(LEAF SW) IC82 (LEAF SW)	l - 12
Q71	C - 13

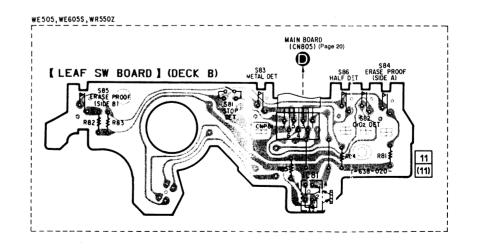
## (DECK-B)

	·
Ref. No.	Location
D31	C - 3
IC31 IC81 (AUDIO) IC81 (LEAF SW) IC81 (LEAF SW) IC82 (LEAF SW)	D-4 B-4 I-5 I-18
Q51 Q52 Q53 Q71	B - 3 B - 3 C - 3 C - 5





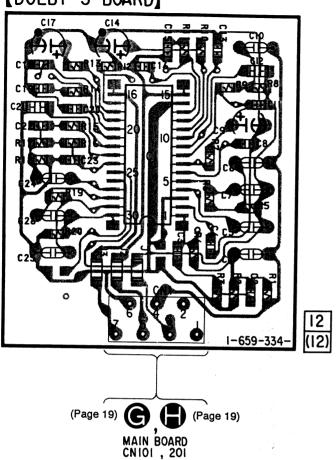




• (1986): Pattern of the rear side.

5-7. PRINTED WIRING BOARDS (DOLBY SECTION)
(EXCEPT WE505)

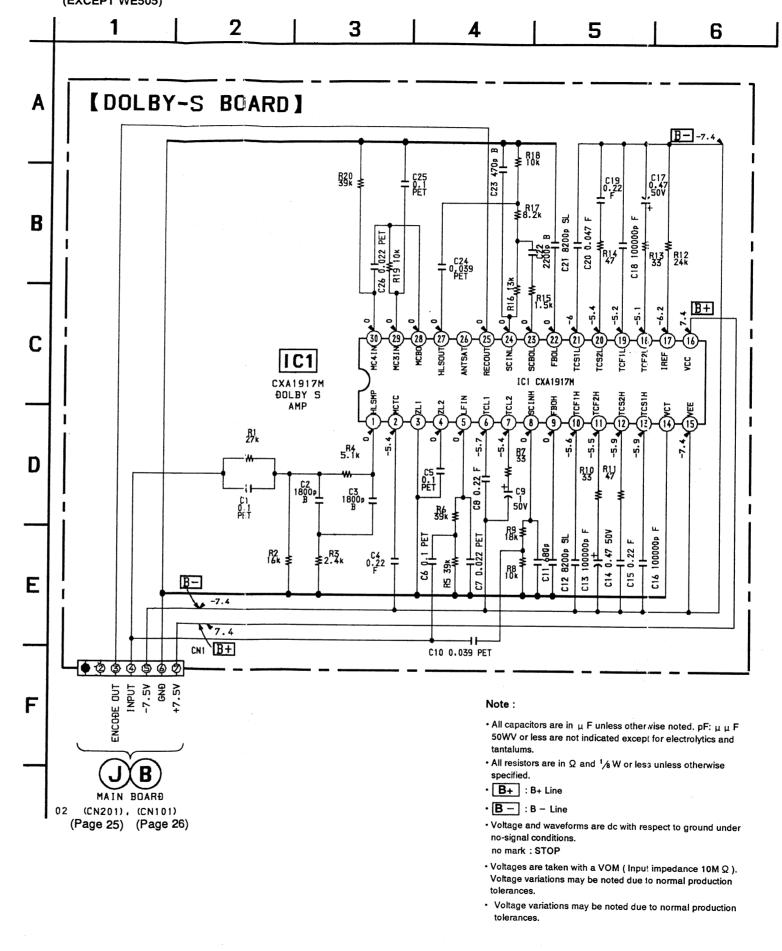
### [DOLBY S BOARD]



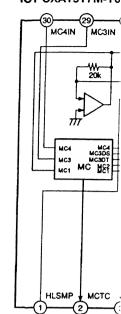
#### Note:

- O----: parts extracted from the component side.
- Pattern on the side which is seen.

## 5-8. SCHEMATIC DIAGRAM (DOLBY SECTION) (EXCEPT WE505)

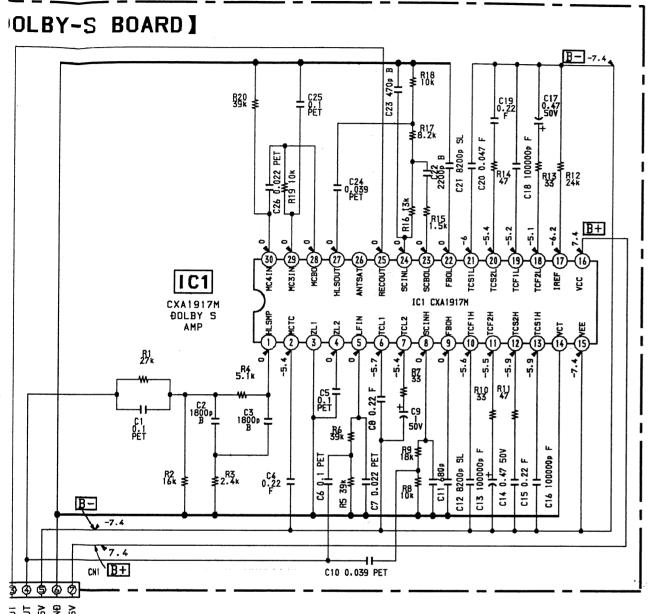


IC BLOCK DIAGR.
 IC1 CXA1917M-T6



1), (CN101) 25) (Page 26)

2 3 4 5 6

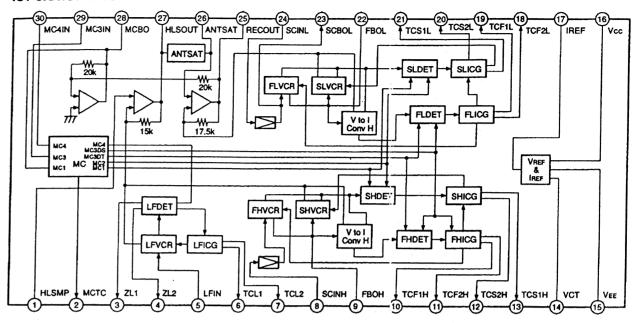


#### Note:

- All capacitors are in  $\,\mu$  F unless otherwise noted. pF:  $\,\mu$   $\,\mu$  F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $^1/_{\!B}\,W$  or less unless otherwise specified.
- **B+** : B+ Line
- **B** : B Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- no mark : STOP
- Voltages are taken with a VOM ( Input impedance 10M  $\Omega$  ). Voltage variations may be noted due to normal production tolerances
- Voltage variations may be noted due to normal production tolerances.

#### • IC BLOCK DIAGRAM

#### IC1 CXA1917M-T6

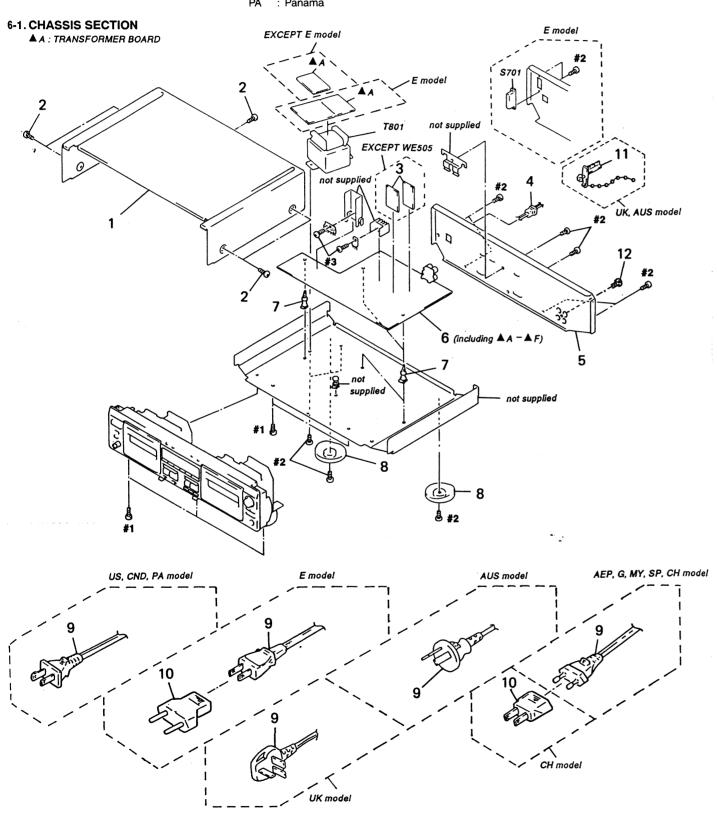


# SECTION 6 EXPLODED VIEWS

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " \* "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
   CND : Canadian
   AUS : Australian
   SP : Singapore
   PA : Panama
- G : German MY : Malaysia CH : Chinese
- The components identified by mark △ or dotted line with mark △ are critical for safety.

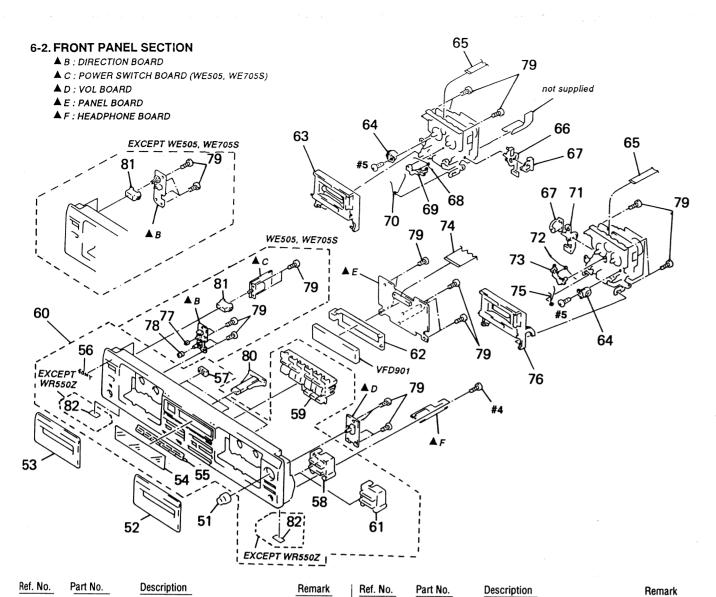
  Replace only with part number specified.
- Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité.

  Ne les remplacer que par une pièce portant le numéro spécifié.



-39

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 1	3-931-432-01	CASE (410726) (WA7ESA, WE605	S,WR550Z)	* 6	A-2007-494-A	MAIN BOARD, COMPLET	E (WE505)
* 1	4-943-088-41	CASE (WE505, WE705S)	•	* 6	A-2007-495-A	MAIN BOARD, COMPLET	E (WE705S)
2	3-363-099-01	SCREW (CASE 3 TP2)(WE505,WE	705S)	* 6	A-2007-513-A	MAIN BOARD, COMPLET	E (WA7ESA)
2	3-704-366-01	SCREW (CASE) (M3X8) (WA7ESA		* 6	A-2007-547-A	MAIN BOARD, COMPLET	E (WR550Z)
-	0.0.00		WR550Z)	* 6	A-2007-576-A	MAIN BOARD, COMPLET	'E (WE605S:MY,SP,CH)
* 3	A-2007-481-A	DOLBY-S BOARD, COMPLETE (EX	CEPT WE505)	* 7	3-346-265-31	HOLDER, PC BOARD	
* 4	3-703-244-11	BUSHING (2104), CORD (AEP,UK,		8	X-3371-435-1	FOOT ASSY (F50150S) (A	
			CH,)			FOOT ACCV (FF014FC) (	CH)
4	3-703-571-11	BUSHING (S) (4516), CORD (US,0	CND,E,PA)	8	X-3371-436-1	FOOT ASSY (F50145S) (	US,CND,PA)
* 5	3-920-372-21	PANEL, BACK (WE505:UK)		▲ 9	1-551-188-99	CORD, POWER (E)	CDT 4) (HC OND DA)
* 5	3-931-244-01	PANEL, BACK (WE605S:US,PA)		<b>△</b> 9	1-558-945-21	CORD, POWER (POLAR.	
* 5	3-931-244-11	PANEL, BACK (WE605S:CND)		<b>1</b>	1-575-651-21	CORD, POWER (AEP,G,N	14,54,64)
* 5	3-931-244-21	PANEL, BACK (WE605S:E)		<b>△</b> 9	1-696-586-11	CORD, POWER (UK)	
* 5	3-931-244-31	PANEL, BACK (WE605S:AUS)		1	1-696-845-11	CORD, POWER (AUS)	
* 5	3-931-244-41	PANEL, BACK (WE605S:MY,SP,CH	1)	△ 10	1-569-007-11	ADAPTER, CONVERSION	I 2P (E)
* 5	3-931-245-01	PANEL, BACK (WE505:AEP,G)	,	△ 10	1-569-008-21	ADAPTER, CONVERSION	I 2P (CH)
* 5	3-931-245-21	PANEL, BACK (WR550Z)		11	4-956-370-12	BAND, PLUG FIXED (UK,	AUS)
* 5	3-931-246-01	PANEL, BACK (WE705S)		12	3-704-515-01	SCREW (BV,RING) (WE5	05,WE705S)
* 5	3-932-543-01	PANEL, BACK (WA7ESA:US)		<b>△</b> S701	1-692-155-11	SELECTOR, POWER VOL	TAGE (VOLTAGE
* 5	3-932-543-11	PANEL, BACK (WA7ESA:CND)					SELECTOR) (E)
* 6	A-2007-491-A	•	5S:US,CND,	<b>⚠</b> T801	1-427-782-11	TRANSFORMER, POWER	R (US,CND,PA)
-			PA)	<b>⚠</b> T801	1-427-783-11	TRANSFORMER, POWER	R (AEP,UK,G,AUS,MY,SP,
* 6	A-2007-492-A	MAIN BOARD, COMPLETE (WE60	5S:E)				CH)
•		•	•	<b>⚠</b> T801	1-427-784-11	TRANSFORMER, POWER	R (E)
* 6	A-2007-493-A	MAIN BOARD, COMPLETE (WE60	5S:AUS)				



Ref. No.	Part No.	Description	Remark Ref. No	o. Part No.	Description	Remar
51	3-909-661-21	KNOB (REC) (WE505,WE705S)	64	3-354-963-01	DAMPER	
51	3-931-430-11	KNOB (REC) (WA7ESA, WE605S, WR		1-769-882-11		
52	X-3371-367-1		, ,		(WE505,WE605S,WR550Z)	
		(EXCEF	PT WA7ESA) 65	1-769-912-11	, , , , , , , , , , , , , , , , , , , ,	
52	X-3371-572-1	LID (ES) ASSY (B), CASSETTE (WA7			(WA7ESA,WE705S)	
53	X-3371-366-1	LID (HF) ASSY (A), CASSETTE	* 66	3-354-953-01		
			PT WA7ESA) 67	3-354-957-01		
53	X-3371-571-1	LID (ES) ASSY (A), CASSETTE (WA7		3-354-961-01	SPRING (EJ SAFTY SPRING L)	
54	3-931-248-01	WINDOW (M) (EXCEPT WA7ESA:CN	D) 69	3-354-955-01	LEVER (EJ SAFTY LEVER L)	
54	3-931-248-31	WINDOW (M) (WA7ESA:CND)	70	4-959-231-11	SPRING (L), TORSION	
55	3-931-237-01	BUTTON (RMS-6)	* 71	3-354-954-01	LEVER (LOCK LEVER R)	
56	4-963-404-21	EMBLEM (5-A), SONY	72	3-354-962-01	SPRING (EJ SAFTY SPRING R)	
57	3-931-243-01	BUTTON (COUNTER)	73	3-354-956-01	LEVER (EJ SAFTY LEVER R)	
58	X-3371-370-1	BUTTON (SYNCHRO) ASSY (WE705S	S,WE605S) 74	1-769-598-11	WIRE (FLAT TYPE) (41 CORE)	
59	3-931-239-01	BUTTON (SR)	75	4-959-232-11	SPRING (R), TORSION	
60	X-3371-355-1	PANEL (HF) ASSY, FRONT	76	X-4945-946-1	HOLDER (R) ASSY, CASSETTE	
		(WE605S:US,CND,PA)	77	3-380-952-21	BUTTON (5X5)	
60	X-3371-356-1	PANEL (HF) ASSY, FRONT			• •	
		(WE605S:E,AUS,MY,SP,CH)	78	3-931-378-01	KNOB (F10) (WE505,WE705S)	
			79	4-951-620-01	SCREW (2.6X8), +BVTP	
60	X-3371-357-1	PANEL ASSY, FRONT (WR550Z)	80	3-377-328-11	BUTTON (EJECT) (WE505,WE705	S)
60	X-3371-358-1	PANEL ASSY, FRONT (WE505)	80	3-931-427-11	BUTTON (EJ) (WA7ESA, WE605S, V	WR550Z)
60	X-3371-361-1	PANEL ASSY, FRONT (WE705S)	81	3-354-932-01	BUTTON (POWER) (WE505,WE70	
60	X-3371-567-1	PANEL (ES) ASSY, FRONT (WA7ESA:				•
60	X-3371-568-1	PANEL (ES) ASSY, FRONT (WA7ESA:	CND) 81	3-931-429-01	BUTTON (POWER) (WE605S, WR5	550Z)
			81	4-922-921-31	BUTTON (POWER) (WA7ESA)	•
61	3-931-242-01	BUTTON (ARL) (WA7ESA, WE505, WR	550Z) 82	4-977-358-01	CUSHION (8X12.5) (EXCEPT WR5	50Z)
62	3-377-337-11	HOLDER (FL)	VFD	901 1-517-263-11	INDICATOR TUBE, FLUORESCENT	•
63	X-4945-947-1	HOLDER (L) ASSY, CASSETTE	I			

DECK-A TC-WE505 TC-WA7ESA TC-WE705S DECK-B TC-WA7ESA/WE TC-WE505/WE60	: TCM-190RA14CL : TCM-190RA17CL : TCM-190RA18C : TCM-190RB11C : TCM-190RB11C	
119 MI #7 #7 122-0	118 110 119 119 110 110 110 110 110 110 110	113
Ref No. Part No. Description	Pomork   Dof No. Dort No.	Description Description

6-3. MECHANISM SECTION 1 /TC-WE605S/WR550Z: TCM-190RA12CL \

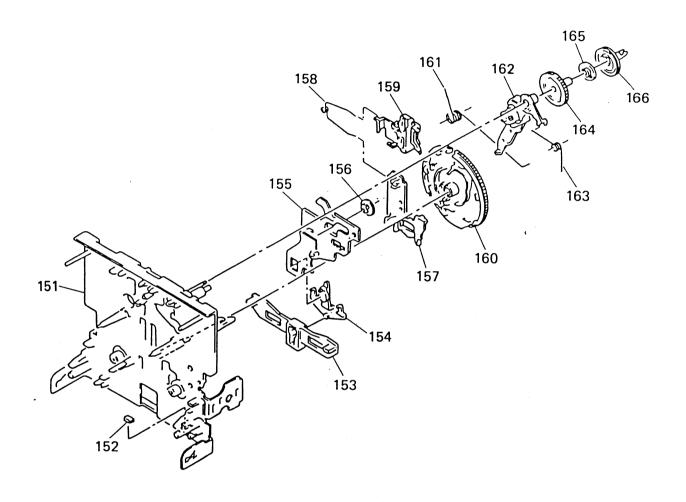
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	X-3366-047-1	LEVER (PINCH F) ASSY		116	X-3367-629-1	FLYWHEEL (FWD) ASSY	
102	3-356-713-01	WASHER		117	3-575-321-00	RETAINER, THRUST, CAPSTAN	
103	3-907-362-01	SPRING, TORSION		118	3-359-436-11	BASE (THRUST RETAINER), FIT	
104	X-3366-970-1	TABLE ASSY, REEL (WE505	.WE605S.WR550Z)	119	3-359-414-01	SCREW (+PTPWH 2X23)	IIING
104	X-3366-971-1	TABLE ASSY, REEL (WA7ES		* 120	A-2007-040-A		FOK D
		(	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	120	A-2007-040-A	AUDIO BOARD, COMPLETE (D	ECK B)
105	3-362-308-01	CAP (REEL)		* 120	A-2007-266-A	AUDIO BOARD, COMPLETE (D	TOK AN MATERIES
106	3-356-714-01	WASHER		120	A-2001-200-A	AUDIO BUAND, COMPLETE (D	, ,
107	X-3366-048-1	LEVER (PINCH R) ASSY		* 120	A-2007-339-A	AUDIO BOARD, COMPLETE (D	WR55(Z)
108	X-3366-971-1	TABLE ASSY (B), REEL		* 120	A-2007-339-A A-2007-479-A		
109	3-359-424-01	GEAR (REV GEAR)		* 120	A-2007-479-A A-2007-480-A	AUDIO BOARD, COMPLETE (DI	
				121	1-638-983-11	AUDIO BOARD, COMPLETE (DI MOTOR FLEXIBLE BOARD	ECK A) (WE705)
110	3-359-430-01	SPRING (CASSETTE RETAIN	VER).LEAF	12 -	1-030-903-11	MOTOR PLEXIBLE BUARD	
111	3-388-848-01	SCREW (P2X6) (B TIGHT)	,,	122	3-355-808-02	DINCH DOLLED	
* 112	1-634-841-14	LEAF SW BOARD (DECK A)	(WA7FSA WF705S)	HP101		PINCH ROLLER	() (MEEOE
* 112	1-638-020-11	LEAF SW BOARD (DECK A)		HEIVI	A-2004-526-A	DECK ASSY, HEAD (PLAYBACK	
			WR550Z)	HP101	A 2004 E40 A		VE605S,WR550l)
* 112	1-634-841-14	LEAF SW BOARD (DECK B)		ПРІОТ	A-2004-548-A	DECK ASSY, HEAD (PLAYBACK	
			(20/4,1/2/000)	UDDE1/	01 A 2004 E27 A	DECK ACCV LIEAD (DECCED )	WE705()
* 112	1-638-020-11	LEAF SW BOARD (DECK B)	(WE505 WE605S	nnen	01A-2004-527-A	DECK ASSY, HEAD (RECORD /	
		(J2011 J)	WR550Z)	M1	V 220F 277 0	MOTOR ADDY (CAROTAN)	ERASE)
113	3-359-466-01	BELT (FR), SQUARE	77110002)	IVII	X-3365-377-2	MOTOR ASSY (CAPSTAN)	
114	X-3367-630-1	FLYWHEEL (REV) ASSY		840	V 2205 F04 0	MOTOR ACOV (DEE)	
115				M2	X-3365-501-2	MOTOR ASSY (REEL)	
115	3-359-417-01	BELT (FLAT), CAPSTAN	1		5555 551 2	MOTOTI NOOT (HEEL)	

### 6-4. MECHANISM SECTION 2

TC-WE605S/WR550Z:TCM-190RA12CL TC-WE505 : TCM-190RA14CL : TCM-190RA17CL **DECK-A** TC-WA7ESA TC-WE705S

: TCM-190RA18C

DECK-B (TC-WA7ESA/WE705S : TCM-190RB11C TC-WE505/WE605S/WR550Z : TCM-190RB12CL)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	D. amarila
151 152 153 154 * 155	X-3359-415-1 3-359-469-01 3-359-425-01 3-359-426-01 3-359-415-01	CHASSIS ASSY MECHANICAL SPACER SLIDER (REVERSE SLIDER) LEVER (REVERSE LEVER) SLIDER (TRIGGER SLIDER)		159 * 160 161 162 163	3-359-429-01 3-936-483-01 3-359-456-01 X-3366-569-1 3-924-185-11	<del></del>	Remark On
156 157 158	3-359-448-01 3-359-427-01 3-359-454-01	GEAR (TRIGGER) SLIDER (LEVERSE SLIDER) SPRING, TORSION		164 165 166		GEAR (FR GEAR) CLUTCH (REEL DISK) PULLEY (FR PULLEY)	

#### **SECTION 7 ELECTRICAL PARTS LIST**

## AUDIO (DECK A)

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS

All resistors are in ohms METAL : Metal-film resistor METAL OXIDE :Metal oxide-film resistor F: nonflammable

• Items marked " \* "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these

• SEMICONDUCTORS

In each case,  $\mathbf{u}:\boldsymbol{\mu}$  , for example :  $uA....: \mu \; A.... \; , \; uPA....: \mu \; PA....$ uPB....: μ PB...., uPC....: μ PC....

uPD....: μ PD.... • CAPACITORS

uF:μF

• COILS

uH : μi H

 Abbreviation
 CND : Canadian
 AUS : Australian
 SP : Singapore
 PA : Panama CH

: German : Malaysia : Chinese

The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ∆ sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

	items.	mould be anticipal	ied when ordering	these			
	Ref. No.	Part No.	Description			Remark	
	*	A-2007-266-A	A AUDIO BOARD	, COMPLETE ((		(WE605S	
:	*	A-2007-339-A	AUDIO BOARD	COMPLETE (	וברע או	WR550Z	)
	*	A-2007-479-A	AUDIO BOARD	COMPLETE (	DECK A)	(WEDUD)	
:	*	A-2007-480-A	AUDIO BOARD	, COMPLETE (D	DECK A)	(WE705S)	,
			< CAPACITOR >		*****		
				•			
	C11	1-163-131-00		390PF	5%	50V	
	C12	1-136-157-00		0.022uF	5%	50V	1
	C13	1-124-234-00		22uF	20%	16V	Į
	C18	1-163-251-11		100PF	5%	50V	İ
	C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	
	C22	1-136-157-00	FILM	0.022uF	5%	50V	
	C23	1-124-234-00	ELECT	22uF	20%	16V	-
	C28	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	- 1
	C31	1-124-234-00	ELECT	22uF	20%	16V	1
	C32	1-124-234-00	ELECT	22uF	20%	16V	
	<b>C</b> 72	1-109-889-11	ELECT	1uF	20%	50V	
			< CONNECTOR >				
*	CNJ31	1-580-782-11	CONNECTOR, BO	ARN TO ROAD	0		
	CNJ72	1-764-902-11	CONNECTOR, FF	C/FPC AP	υ.		
*	CNP30	1-564-718-11	PIN, CONNECTOR	R (SMALL TYP			
*	CNP32	1-580-772-11	PIN, CONNECTOR	R (PC BOARD)	4P W	/E705S)	
*	CNP71	1-564-719-11	PIN, CONNECTOR	R (SMALL TYPE	E) 3P		
			< IC >				
	IC31	8-759-106-02	IC uPC4570G2				
			< JUMPER RESIS	TOR >			
	JW1	1-216-295-00	METAL CHIP	0	50/	4 44 6 4 4	
	JW51		METAL CHIP	0 0		1/10W	
	JW52		METAL CHIP	0		1/8W	1
	JW53		METAL CHIP	0		1/8W	
	.IW54		METAL CHIP	0	5%	1/8W	

JW54 1-216-296-00 METAL CHIP

Ref. No.	Part No.	Description			Remark
JW10	1 1-216-295-00	METAL CHIP	0	5% (WE50	1/10W 5,WE705S
		< TRANSISTOR	l>		
Q71	8-729-216-22	TRANSISTOR	2SA1162-G		
		< RESISTOR >			
R11	1-216-099-00	METAL CHIP	120K	5%	1/10W
R12	1-216-025-91	METAL GLAZE	100	5%	1/10W
R13	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R14	1-216-069-00	METAL CHIP	6.8K	5%	
					1/10W (WE705S,
R14	1-216-068-00	METAL CHIP	6.2K	5%	
			(WE505,V		1/10W
			(**1.505,*	¥E0035,	,wrtoouz
R21	1-216-099-00	METAL CHIP	120K	5%	1/10W
R22	1-216-025-91	METAL GLAZE	100	5%	
R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W 1/10W
R24	1-216-069-00	METAL CHIP	6.8K	5%	
					1/10W WE705S)
R24	1-216-068-00	METAL CHIP	6.2K	5%	1/10W
			(WE505,W		
			(**2003,**	rE0033,	whoouz)
R31	1-216-033-00	METAL CHIP	220	5%	1/10W
R32	1-216-033-00	METAL CHIP	220	5%	1/10W
R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R72	1-216-081-00	METAL CHIP	22K	5%	1/10W
R73	1-216-089-91	METAL GLAZE	47K -	5%	1/10W
R74	1-216-089-91	METAL GLAZE	47K	5%	1/10W
		< VARIABLE RES	STOR >		
RV11	1-241-761-11	RES ADI CADDO	MINE (DOLE)	r	
RV21		RES, ADJ, CARBO RES, ADJ, CARBO	IN IN (PBLEV	EL L)	
RV71	1-241-630-11	RES, ADJ, CARBO RES, ADJ, CARBO	IN IK (PB LEV	EL R)	
	. 241 000-11	ILO, ADJ, CARBO		CED (1) 0	
RV72	1-241-630-11	RES ADJ CARRO	(TAPE SP	EED(NO	HMAL))
	*******	RES, ADJ, CARBO	IN TUK (TAPE S	PEED(H	liGH))

**AUDIO (DECK B)** 

	Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
	*	A-2007-040-							< DIODE >			
			*********	*********	*****							
			< CAPACITOR >				D31	8-719-404-4	DIODE MA1	10		
			(0111710110117						< IC >			
	C11	1-163-131-00		390PF	5%	50V			(10)			
	C12	1-136-157-00		0.022uF	5%	50V	IC31	8-759-106-02	2 IC uPC45700	32		
	C13	1-124-234-00		22uF	20%	16V	IC81	8-759-106-56				
	C18		CERAMIC CHIP	100PF	5%	50V						
	C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V			< COIL >			
	C22	1-136-157-00	FILM	0. <b>02</b> 2uF	5%	50V	L81	1-410-780-11	INDUCTOR	07		
	C23	1-124-234-00	ELECT	22uF	20%		L91	1-410-780-11		27mH		
	C28	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		1-410-700-11	INDUCTOR	27mH		
	C31	1-124-234-00	ELECT	22uF	20%		-		< TRANSISTOR	١.		
	C32	1-124-234-00	ELECT	22uF	20%				< mansistur	1>		
							Q51	8-729-822-05	TRANSISTOR	2SD1622-S	T TD	
	C33	1-124-234-00		22uF	20%	16V	Q52	8-729-822-05		2SD1622-S		
	C51		CERAMIC CHIP	0.0022uF	10%		Q53	8-729-822-05		2SD1622-S1		
	C52		CERAMIC CHIP	0.0022uF	10%	100V	071	8-729-216-22		2SA1162-G	טויו	
	C53	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V			110 110 10 10 11	20A1102-0		
	C54	1-136-601-11	FILM	0.01uF	5%	630V			< RESISTOR >			
	C56	1-164-505-11	CERAMIC CHIP	2.2uF		161/	D11	4 040 000 00				
	C57	1-164-346-11		2.2ur 1uF		16V	R11	1-216-099-00		120K	5%	1/10W
	C71	1-164-346-11	CERAMIC CHIP	1uF		16V	R12	1-216-025-91		100	5%	1/10W
	C80	1-124-234-00	ELECT	22uF	20%	16V	R13	1-216-100-00		130K	5%	1/10W
	C81	1-164-232-11	CERAMIC CHIP	0.01uF	20%	16V 50V	R14	1-216-068-00		6.2K	5%	1/10W
			o	0.0141		30 V	R21	1-216-099-00	METAL CHIP	120K	5%	1/10W
	C82	1-136-157-00	FILM	0.022uF	5%	50V	R22	1-216-025-91	METAL GLAZE	100	5%	1/10W
	C83	1-164-004-11	CERAMIC CHIP	0.1นF	10%	25V	R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W
	C84	1-136-478-11	FILM	470PF	5%	630V	R24	1-216-068-00		6.2K	5%	1/10W
	C85 C86	1-136-433-11	FILM	100PF	5%	630V	R31	1-216-033-00	METAL CHIP	220	5%	1/10W
	000	1-163-143-00	CERAMIC CHIP	0. <b>0012</b> uF	5%	50V .	R32	1-216-033-00	METAL CHIP	220	5%	1/10W
	C87	1-136-273-91	FILM	75PF	5%	630V	R33	1.216.065.00	METAL CLUB	4 =		
	C88	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	R51	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
	C89	1-124-234-00	ELECT	22uF	20%		R52	1-216-097-91 1-216-097-91	METAL GLAZE	100K	5%	<b>1</b> /10W
	C90	1-107-584-11	CERAMIC	4PF		F500V	R53	1-216-097-91	METAL GLAZE	100K	5%	<b>1</b> /10W
	C91	1-164-232-11	CERAMIC CHIP	0.01uF	0.201	50V	R54	1-216-309-00	METAL CHIP	10K	5%	1/10W
							1104	1-210-309-00	METAL CHIP	5.6	5%	<b>1</b> /10W
	C92 C93	1-136-157-00		0.022uF	5%	50V	R55	1-216-309-00	METAL CHIP	5.6	5%	1/10W
	C94	1-184-004-11	CERAMIC CHIP	0.1uF	10%		R57	1-216-298-00	METAL CHIP	2.2	5%	1/10W
	C95			470PF	5%	630V	R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W
	C96		FILM	100PF	5%	630V	R72	1-216-081-00	METAL CHIP	22K	5%	1/10W
	030	1-103-143-00	CERAMIC CHIP	0.0012uF	5%	50V	R73	1-216-089-91	METAL GLAZE	47K	5%	1/10W
	C97	1-136-273-91	FILM	75PF	5%	630V	R74	1-216-089-91	METAL CLAZE	170		
	C98		CERAMIC CHIP	330PF		50V	R81	1-216-089-91	METAL GLAZE	47K	5%	1/10W
	C99		CERAMIC CHIP	0.47uF	. 5 /6	25V	R82	1-216-073-00	METAL CHIP	10K	5%	1/10W
							R83	1-216-085-00	METAL CHIP	33K	5%	1/10W
			< CONNECTOR >				R84	1-216-001-00	METAL CHIP	10	5%	1/10W
	01155					į	1104	1-210-101-00	METAL CHIP	150K	5%	1/10W
*		1-580-782-11	CONNECTOR, BOA	RD TO BOARD	)	ĺ	R85	1-216-075-00	METAL CHIP	12K	5%	1/10W
*		1-580-781-11	PIN, CONNECTOR	(PC BOARD) 7	7P		R91	1-216-073-00	METAL CHIP	10K	5%	1/10W
*		1-580-782-11	CONNECTOR, BOA	RD TO BOARD	)		R92	1-216-085-00	METAL CHIP	33K	5%	1/10W
•		1-564-719-11	PIN, CONNECTOR (	(SMALL TYPE	) 3P	ļ	R93	1-216-001-00	METAL CHIP	10	5%	1/10W
	UNP/2	1-764-902-11	CONNECTOR, FFC/	FPC 4P		ļ	R94		METAL CHIP	150K	5%	1/10W
*	CNP75	1-564-718-11	PIN, CONNECTOR (	CMALL TUDE	\ 2D	1	B4-				- 70	17 1044
	J	. 551,110 11	, OOIWINEUTUR (	SIVIALL ITPE	) 21		R95	1-216-075-00	METAL CHIP	12K	5%	1/10W

1/8W

5%

MAIN DIRECTION HEADPHONE PANEL

POWER SWITCH TRANSFORMER VOL

Ref. No.	Part No.	Descr	· · · · · · · · · · · · · · · · · · ·	Ref. No.	Part No.	Description			Remark
CN807	1-568-954-1	1 PiN, C	ONNECTOR 5P	J502	1-568-519-4		E TYPE (PHON	IES)	
		< CON	NECTOR >	* J801	1-764-188-1	1 JACK (SMAL	L TYPE) (DIA.	3.5) (CC	ONTROL A)
CNP802	? 1-770-247-11	SOCKE	T, CONNECTOR 41P	* J802	1-764-188-1	1 JACK (SMAL	L TYPE) (DIA.	3.5) (CC	05S,WE705S) ONTROL A) 05S,WE705S)
		< 0100	DE >			< FILTER >			
D101	8-719-933-33	DIODE	HZS6A1L	1.5540					
D201	8-719-933-33			LPF10	1 1-233-271-11	FILTER, LOW	PASS		
D521	8-719-987-63	DIODE		LFF20	1 1-233-271-11	FILTER, LOW	PASS		
D522	8-719-987-63					< TRANSISTO	ND \		
D601	8-719-987-63	DIODE	1N4148M (WA7ESA,WE505,WE705S)						
D602	8-719-987-63	DIODE	1NA1ARM (WAZECA WIEGE WIEZOEG)	Q101	8-729-900-74	TRANSISTOR	DTC143TS		
D701	8-719-024-99		1N4148M (WA7ESA, WE505, WE705S) 11ES2-NTA2B	Q102	8-729-922-37	TRANSISTOR			
D702	8-719-024-99		11ES2-NTA2B	Q201	8-729-900-74	TRANSISTOR			
	8-719-024-99		11ES2-NTA2B	Q202 Q501	8-729-922-37	TRANSISTOR			
	8-719-024-99		11ES2-NTA2B	4301	0-129-119-/6	TRANSISTOR	2SA1175-F	IFE	
D705	8-719-987-63	DIODE	181414084	Q502	8-729-620-05	TRANSISTOR	2SC2603-E	F	
	8-719-987-63		1N4148M 1N4148M	Q503	8-729-620-05	TRANSISTOR	2SC2603-E	F	
	8-719-024-99		11ES2-NTA2B	Q601	8-729-900-80	TRANSISTOR	DTC114ES		
	8-719-987-63		1N4148M	Q602	8-729-801-93	TRANSISTOR	2SD1387		
	8-719-933-33		HZS6A1L	Q603	8-729-801-93	TRANSISTOR	2SD1387		
D710	0 710 000 00	D.005		Q604	8-729-900-80	TRANSISTOR	DTC114ES	(WESOS	WE70501
	8-719-933-33	DIODE	HZS6A1L	Q605	8-729-119-76	TRANSISTOR	2SA1175-H	FF (WF5	,we/033) 605
	8-719-933-33 8-719-933-38		HZS6A1L				20/11/70 1/	(**_5	WE705S)
	8-719-933-38 8-719-987-63	DIODE	HZS6B3L	Q606	8-729-900-80	TRANSISTOR	DTC114ES		11270007
	8-719-987 <b>-</b> 63			Q701	8-729-141-83	TRANSISTOR	2SB1094-LI	K	
J.11	0 7 15-507-05	DIODE	1N4148M	Q702	8-729-209-15	TRANSISTOR	2SD2012		
	8-719-987-63		1N4148M	Q703	8-720-1/1-82	TRANSISTOR	0001004.11	,	
D716 8	8-719-000-78	DIODE	UZL-7L2	Q704	8-729-620-05	TRANSISTOR	2SB1094-LI 2SC2603-EF		
	8-719-987-63		1N4148M	Q705	8-729-900-80	TRANSISTOR	DTC114ES (		A MECOEC
	8-719-987-63		1N4148M			***************************************	01011460	WAICSI	WR550Z)
	3-719-987-63		1N4148M	Q706	8-729-900-80	TRANSISTOR	DTC114ES (	WA7ES#	WE605S,
	· - · · · · · · ·		1N4148M	Q707	8-729-119-76	TRANSISTOR	2SA1175-HF	Έ	WR550Z)
		LED	1N4148M (WE605S,WE705S) SEL6210S-TH10 (AUTO REC LEVEL)	0700					
		LED	SEL6210S-TH10 (SYNCHRO)	Q708	8-729-140-04	TRANSISTOR	2SB1116A-L		
			(WE605S,WE705S)	Q709 Q801	8-729-224-62	TRANSISTOR	2SK246-GR	(WA7ES	A)
			(***20000;***27000)	Q802	8-729-900-89 8-729-900-74		DTC144ES		
		< IC >		4002	0-729-900-74	TRANSISTOR	DTC143TS (	WA7ESA	
C501 8-	750 075 07	10 074	10700	Q803	8-729-620-05	TRANSISTOR	2SC2603-EF	(WF605	WR550Z)
		IC CXA1	I					(***	WE705S)
		IC M52							
		IC LA65			8-729-119-76		2SA1175-HF	E	
		IC M521				TRANSISTOR	DTA114ES		
	<del>-</del> -					TRANSISTOR	DTC114ES		
	-752-871-45	IC CXP8	2224-043Q	u00/	8-729-900-65	IKANSISTOR	DTA144ES (V	VA7ESA,	
	759-165-82	IC PST6	00E-T						WE705S)
802 8-	750 520 00	IC PST5				< RESISTOR >			
2 <b>8</b> 02 8-		C SN74	HC04AN			· IILUIUIUN >			
802 8- 802 8- 804 8-	759-916-14				1 040 400 44	CARBON	4014		
802 8- 802 8- 804 8-	759-916-14	IC MC14	052BCP	R101	1-249-429-11	CAUDOM	70K	50/	1//\A/
0802 8- 0802 8- 0804 8- 0805 8-	759-916-14   759-000-48	IC MC14			1-249-429-11 1-247-887-00		10K 220K	5% 5%	1/4W 1/4W
C802 8- C802 8- C804 8- C805 8-	759-916-14   759-000-48			R102 R103	1-247-887-00 1-249-441-11	CARBON CARBON	220K	5%	1/4W
0802 8- 0802 8- 0804 8- 0805 8-	759-916-14   759-000-48   741-810-59	C SBX1		R102 R103 R104	1-247-887-00 1-249-441-11 1-249-420-11	CARBON CARBON CARBON	220K 100K	5% 5%	1/4W 1/4W
0802 8- 0802 8- 0804 8- 0805 8-	759-916-14   759-000-48   741-810-59	IC MC14		R102 R103 R104	1-247-887-00 1-249-441-11	CARBON CARBON CARBON	220K	5%	1/4W

						FOVE	SWIIC	III	NOFUN	VIEN	VUL
Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description		1	Remark
R106	1-247-842-11	CARBON	3K	.5%	1/4W	R524			4.71/	-	
R107	1-249-417-11		1K	5%	1/4W	}	1-249-425-11		4.7K	5%	1/4W
R108	1-249-424-11		3.9K	5%	1/4W	R525	1-249-425-11		4.7K	5%	1/4W
R109	1-249-429-11		10K	5% 5%	1/4W	R526	1-249-441-11	CARBON	100K	5%	1/4W
R110	1-249-425-11		4.7K			D507					
11110	1-243-423-11	CANDON	4./ N	5%	1/4W	R527	1-249-441-11		100K	5%	1/4W
R111	1 040 401 11	CADDON	0.01/	<b>50</b> /	4/414	R528	1-247-852-11		7.5K	5%	1/4W
R112	1-249-421-11 1-249-430-11		2.2K	5%	1/4W	R531	1-249-437-11		47K	5%	1/4W
			12K	5%	1/4W	R532	1-249-437-11		47K	5%	1/4W
R113	1-249-417-11		1K	5%	1/4W	R533	1-249-437-11	CARBON	47K	5%	1/4W
R114	1-249-421-11		2.2K	5%	1/4W	İ					
R115	1-249-433-11	CARBON	22K	5%	1/4W	R601	1-247-807-31		100	5%	1/4W
						R602	1-247-807-31	CARBON	100	5%	1/4W
R116	1-249-423-11	CARBON	3.3K	5%	1/4W	R603	1-249-433-11	CARBON	22K	5%	1/4W
R117	1-249-429-11	CARBON	10K	5%	1/4W	R604	1-249-433-11	CARBON	22K	5%	1/4W
R118	1-249-409-11	CARBON	220	5%	1/4W	R605	1-249-430-11	CARBON	12K	5%	1/4W
R119	1-249-417-11		1K	5%	1/4W						
R120	1-249-437-11	CARBON	47K	5%	1/4W	R606	1-249-430-11	CARBON	12K	5%	1/4W
						R607	1-247-858-11	CARBON	13K	5%	1/4W
R121	1-249-437-11		47K	5%	1/4W	R608	1-247-858-11		13K	5%	1/4W
R201	1-249-429-11	CARBON	10K	5%	1/4W	R609	1-247-858-11		13K	5%	1/4W
R202	1-247-887-00	CARBON	220K	5%	1/4W	R610	1-247-858-11		13K	5%	1/4W
R203	1-249-441-11		100K	5%	1/4W			0, 2 0	1010	0 /0	17-11
R204	1-249-420-11	CARBON	1.8K	5%	1/4W	R613	1-249-422-11	CARBON	2.7K	5%	1/4W
						R614	1-249-422-11		2.7K	5%	1/4W
R205	1-249-423-11	CARBON	3.3K	5%	1/4W	R615	1-247-854-11		9.1K	5%	1/4W
R206	1-247-842-11		3K	5%	1/4W	R616	1-247-854-11		9.1K	5%	1/4W
R207	1-249-417-11	CARBON	1K	5%	1/4W	R617	1-249-429-11	O			
R208	1-249-424-11	CARBON	3.9K	5%	1/4W	1	1-243-423-11	CANDON	10K	5%	1/4W
R209	1-249-429-11		10K	5%	1/4W	R618	1-249-421-11	CARRON	0.01/	<b>5</b> 0/	4 (4)41
		0,4,100,11	1010	370	1/711	R619	1-249-429-11		2.2K	5%	1/4W
R210	1-249-425-11	CARBON	4.7K	5%	1/4W	R620			10K	5%	1/4W
R211	1-249-421-11		2.2K	5%	1/4W	: R621	1-249-421-11		2.2K	5%	1/4W
R212	1-249-430-11		12K	5%	1/4W	N021	1-249-435-11	CARBON	33K	5%	1/4W
R213	1-249-417-11		1K	5%	1/4W	BC00	1 047 040 44	0400000			WE705S)
R214	1-249-421-11		2.2K	5% 5%	1/4W	R622	1-247-848-11	CARBON	5.1K	5%	1/4W
	, 240 421 11	OANDON	Z.ZN	J /0	1/477	1.				(WE505,	WE705S)
R215	1-249-433-11	CARBON	22K	5%	1/4W	R623	1-249-437-11	CADDON	471/	<b>5</b> 0/	4.444
R216	1-249-423-11		3.3K	5%	1/4W	nuzo	1-249-43/-11	CARBUN	47K	5%	1/4W
		07.11.15011	0.010		T WE505)	DCOA	1 040 407 44	0400011			WE705S)
R217	1-249-429-11	CARBON	10K	5%		R624	1-249-437-11	CARBON	47K	5%	1/4W
R218	1-249-409-11		220	5% 5%	1/4W	D704	4 040 444 44				<b>₩</b> E705S)
R219	1-249-417-11				1/4W	R701	1-249-414-11		560	5%	1/4W
11213	1-243-411-11	CARDON	1K	5%	1/4W	R702	1-249-429-11	CARBON	10K	5%	1/4W
R220	1-249-437-11	CADDON	471/	F0/	414141				(WA7ESA	,WE605	WR550Z)
R221			47K	5%	1/4W	R703	1-249-419-11	CARBON	1.5K	5%	1/4W
R501	1-249-437-11	CARBON	47K	5%	1/4W						
	1-215-455-00	METAL	27K	1%	1/4W	R704	1-249-425-11	CARBON	4.7K	5%	1/4W
R502	1-215-452-00	METAL	20K	1%	1/4W	R705	1-249-427-11	CARBON	6.8K	5%	1/4W
DEOO	1 040 447 44	0400011				R706		CARBON	1.5K	5%	1/4W
R503	1-249-417-11	CARBON	1K	5%	1/4W	R707	1-249-429-11	CARBON	10K	5%	1/4W
R504	1-249-428-11	CARBON	8.2K	5%	1/4W	R708	1-249-419-11	CARBON	1.5K	5%	1/4W
R505	1-247-903-00	CARBON	1M	5%	1/4W						
R507	1-249-429-11	CARBON	10K	5%	1/4W	R709	1-249-425-11	CARBON	4.7K	5%	1/4W
R508	1-249-413-11	CARBON	470	5%	1/4W	R710	1-249-417-11	CARBON	1K	5%	1/4W
						R711		CARBON	6.8K	5%	1/4W
R509	1-249-417-11	CARBON	1K	5%	1/4W	R712		CARBON	6.8K	5%	1/4W
R510	1-249-437-11	CARBON	47K	5%	1/4W	R713		CARBON	1K	5%	1/4W
R511	1-249-429-11	CARBON	10K	5%	1/4W				110	J /0	11777
R512	1-249-413-11	CARBON	470	5%	1/4W	R714	1-249-429-11	CARBON	10K	5%	1/4W
R521	1-249-433-11	CARBON	22K	5%	1/4W	1		CARBON	2.7K	5% 5%	1/4W 1/4W
						1		CARBON	2.7K 22K	5% 5%	
R522	1-249-426-11	CARBON	5.6K	5%	1/4W	1		CARBON	10K	5%	1/4W
R523	1-249-436-11		39K	5%	1/4W		. 2.0 720-11	SALIDON	IUN	J /6	1/4W
		-		3,0							

MAIN DIRECTION HEADPHONE PANEL

POWER SWITCH TRANSFORMER VOL

Description

Part No.

Ref. No.

MAIN DIRECTION

Remark

HEADPHONE PANEL POWER SWITCH

<b>TRANS</b>	FORMER

VOL LEAF SW (DECK A)

LEAF SW (DECK B)

Ref. No.	Part No.	Description		F	Remark	Ref. No.	Part No.	Description		F	Remark
R718	1-249-436-11	CARBON	39K	5%	1/4W	R844	1-249-421-11	CARBON	2.2K	5%	4/404/
	. 2 10 100 11	0, 11,0011	COIL	0,0	17.444	R845	1-247-874-11	CARBON	62K		1/4W
R719	1-249-430-11	CARBON	12K	5%	1/4W	R846	1-247-866-11	CARBON		5%	1/4W
△ R720	1-219-136-11	FUSIBLE	0.22	10%		1			30K	5%	1/4W
						R847	1-249-431-11	CARBON	15K	5%	1/4W
R721	1-249-415-11	CARBON	680	5% (	1/4W (WA7ESA)	R848	1-247-852-11	CARBON	7.5K	5%	1/4W
R721	1-249-419-11	CARBON	1.5K	5%	1/4W	R849	1-249-429-11	CARBON	10K	5%	1/4W
				(EXCEPT	WA7ESA)	R850	1-249-429-11	CARBON	10K	5%	1/4W
<b>⚠ R</b> 722	1-219-137-11	FUSIBLE	0.33	10%	1/4W F	R851	1-249-429-11	CARBON	10K	5%	1/4W
						R852	1-249-429-11	CARBON	10K	5%	1/4W
<b>⚠ R</b> 723	1-219-137-11	FUSIBLE	0.33	10%	1/4W F	R853	1-249-434-11	CARBON	27K	5%	1/4W
R724	1-249-412-11	CARBON	390	5%	1/4W				2711	070	., .,,
					WA7ESA)	R854	1-249-434-11	CARBON	27K	5%	1/4W
R805	1-249-429-11	CARBON	10K	5% `	1/4W	R855	1-249-434-11	CARBON	27K	5%	1/4W
R806	1-249-429-11	CARBON	10K	5%	1/4W	R856	1-249-434-11	CARBON	27K	5%	
R807	1-249-429-11	CARBON	10K	5%	1/4W	R857					1/4W
11007	1-243-423-11	CANDON	101/	3 /6	1/4 99		1-249-421-11	CARBON	2.2K	5%	1/4W
R808	1 240 420 11	CARBON	101/	F0/	4 (414)	R858	1-249-421-11	CARBON	2.2K	5%	1/4W
	1-249-429-11		10K	5%	1/4W	B050	4 0 4 0 4 0 4 4 4				
R809	1-249-441-11	CARBON	100K	5%	1/4W	R859	1-249-421-11	CARBON	2.2K	5%	1/4W
R810	1-249-417-11	CARBON	1K	5%	1/4W	R860	1-249-434-11	CARBON	27K	5%	1/4W
R811	1-249-433-11	CARBON	22K	5%	1/4W	R861	1-249-434-11	CARBON	27K	5%	1/4W
R812	1-249-433-11	CARBON	22K	5%	1/4W					(WA7ESA,	WE705S)
						R862	1-249-441-11	CARBON	100K	5%	1/4W
R813	1-247-807-31	CARBON	100	5%	1/4W	R863	1-247-807-31	CARBON	100	5%	1/4W
R814	1-249-433-11	CARBON	22K	5%	1/4W						
R815	1-249-435-11	CARBON	33K	5%	1/4W	R901	1-249-413-11	CARBON	470	5%	1/4W
<b>R8</b> 16	1-249-441-11	CARBON	100K	5%	1/4W	R902	1-249-413-11	CARBON	470	5%	1/4W
R817	1-249-426-11	CARBON	5.6K	5%	1/4W						,WE705S)
						R903	1-249-441-11	CARBON	100K	5%	1/4W
R818	1-249-422-11	CARBON	2.7K	5%	1/4W						WE705S)
R819	1-249-428-11	CARBON	8.2K	5%	1/4W	R904	1-247-807-31	CARBON	100	5%	1/4W
R820	1-249-428-11	CARBON	8.2K	5%	1/4W	R911	1-249-418-11	CARBON	1.2K	5%	1/4W
R821	1-249-430-11	CARBON	12K	5%	1/4W	11077	1 243 410 11	CALIDON	1.21	3 /0	1/-+**
R822	1-247-852-11	CARBON	7.5K	5%	1/4W	R912	1-249-420-11	CARRON	1.07	E0/	4 / 434/
11022	1 247 032 11	OAHDON	7.51	J /0	1/400	R913		CARBON	1.8K	5%	1/4W
R823	1-249-425-11	CARBON	174	E0/	1/414/		1-249-422-11	CARBON	2.7K	5%	1/4W
R824	1-249-425-11	CARBON	4.7K	5%	1/4W	R914	1-249-424-11	CARBON	3.9K	5%	1/4W
			4.7K	5%	1/4W	R915	1-249-427-11	CARBON	6.8K	5%	1/4W
R825	1-249-429-11	CARBON	10K	5%	1/4W	R916	1-249-431-11	CARBON	15K	5%	1/4W
R826	1-249-429-11	CARBON	10K	5%	1/4W						
R827	1-249-425-11	CARBON	4.7K	5%	1/4W	R917	1-249-437-11	CARBON	47K	5%	1/4W
				(WE605S,	WE705S)	R921	1-249-418-11	CARBON	1.2K	5%	1/4W
						R922	1-249-420-11	CARBON	1.8K	5%	1/4W
R828	1-249-429-11	CARBON	10K	5%	1/4W	R923	1-249-422-11	CARBON	2.7K	5%	1/4W
				(WE605S,	WE705S)	R924	1-249-424-11	CARBON	3.9K	5%	1/4W
R829	1-249-393-11	CARBON	10	5%	1/4W						
				(WE605S,	WE705S)	R925	1-249-427-11	CARBON	6.8K	5%	1/4W
R830	1-249-421-11	CARBON	2.2K	5%	1/4W	R926	1-249-431-11		15K* -:	5%	1/4W
R831	1-249-421-11	CARBON	2. <b>2</b> K	5%	1/4W	R927	1-249-437-11	CARBON	47K	5%	1/4W
R832	1-249-434-11	CARBON	27K	5%	1/4W	R931	1-249-418-11		1.2K	5%	1/4W
					1	R932	1-249-420-11	CARBON	1.8K	5%	1/4W
R833	1-249-434-11	CARBON	27K	5%	1/4W			071110071		0 / 0	17.444
				(WA7ESA,		R933	1-249-422-11	CARBON	2.7K	5%	1/4W
R834	1-247-887-00	CARBON	220K	5%	1/4W	R934	1-249-424-11		3.9K	5%	1/4W
R835	1-247-887-00		220K	5%	1/4W	11004	1 273 727 11	OANDON	0.51	(WE605S,	
R836	1-247-887-00		220K	5%	1/4W	R935	1-249-427-11	CARBON	6.8K		,
R837	1-247-887-00	CARBON	220K	5%	1/4W					5%	1/4W
11007	1 247 007 00	OANDON	22010	J /0	1/444	R936	1-249-431-11	CARBON	15K	5%	1/4W
R838	1-249-422-11	CARBON	2.7K	E0/	1///4/	R937	1-249-437-11	CARBON	47K	5%	1/4W
				5%	1/4W	Dooo	1 040 404 44	OADDON'	0.01/	<b>5</b> 0/	4 / 414 /
R839		CARBON	2.7K	5%	1/4W	R939	1-249-424-11	CARBON	3.9K	5%	1/4W
R840	1-249-422-11		2.7K	5%	1/4W	D			•	SA,WE505,	
R841		CARBON	10K	5%	1/4W	R941	1-249-418-11		1.2K	5%	1/4W
R <b>8</b> 42	1-247-862-11	CARBON	20K	5%	1/4W	R942	1-249-420-11	CARBON	1.8K	5%	1/4W
					1						

Ref.	NO.	Part No.	Description	11		<u>-</u>	tomank	1.10
R	943	1-249-422-11	CARBON		2.7K	5%	1/4W	
		1-249-424-11	CARBON		3.9K	5%	1/4W	
n.	944	1-245-424-11	CANDON		0.011	•		
R	945	1-249-427-11	CARBON		6.8K	5%	1/4W	
		1-249-431-11			15K	5%	1/4W	
					47K	5%	1/4W	
R	947	1-249-437-11	CARBON		4/ N	J /0	1/4 44	
			< VARIABL	E RESIS	TOR >			
		4 044 020 11	RES, ADJ,	CARRON	10K (DO)	RY I FVFI	1)	
		1-241-630-11	RES, ADJ,	CADDON	10K (DO	DV I EVE	D\	*
R	V201	1-241-630-11	RES, AUJ,	CARBON	TOK (DU	OU CONTS	- n <i>)</i>	
R	W601	1-241-765-11	RES, ADJ,	CARBON	22K (PH	CH CUNIF	(UL)	
						(WE505,\		
R	V901	1-241-797-11	RES, VAR,	CARBON	I 20K (AU	TO REC LE	VEL)	
		1-225-173-11	RES, VAR,	CARBON	150K (PIT	CH CONTI	ROL)	
''	14302	7 220 170 11	,		`	(WE505,\	WE705S)	
						•		
			< SWITCH	>				
ΔS	001	1-762-581-11	SWITCH, A	AC POWE	R PUSH (	1 KEY) (P	OWER)	**:
25 0	,001	1 102 007	,				WE705S)	
S	801	1-554-118-00	SWITCH, F	PUSH (1	KEY) (PO	WER)		*
	,001	1 007 170 00	(WA7ESA,					*
	011	1-554-303-21	SWITCH,					
5	3911	1-554-505-21	SWITCH,	IACTILL	(= 01171	''		ĺ
	912	1-554-303-21	SWITCH,	TACTII F	(r> FR01	NT)		
			SWITCH,					
	3913	1-554-303-21			•	<b>N</b> )		1
5	5914	1-554-303-21	SWITCH,					
5	3915	1-554-303-21	SWITCH,					1
5	3916	1-554-303-21	SWITCH,	TACTILE	(REC)			
					(DECET)			*
5	S917	1-554-303-21	SWITCH,			_		
5	S918	1-554-303-21	SWITCH,	TACTILE	(MEMOR)	Y)		İ
5	S921	1-554-303-21	SWITCH,	TACTILE	(■)			
9	S922	1-554-303-21	SWITCH,	TACTILE	(PAUSE)			
	S923	1-554-303-21	SWITCH,					-
(	S924	1-554-303-21	SWITCH,					
	S925	1-554-303-21				TE)		
	S926	1-554-303-21						
			SWITCH,					
	S927	1-554-303-21					אוסם א	
;	S928	1-554-118-00	SWITCH,	PU5H (1	KEY)(PII	CH CONTI		İ
						(WE505,V	VE/U55)	
	0004	4 554 000 04	CIMITOLI	TACTILE	(DECET)			1
	S931	1-554-303-21				<b>M</b>		
;	S932	1-554-303-21						
;	S933	1-554-303-21	SWITCH,	TACTILE	(FADER)	(WE605S,	WE705S)	
:	S934	1-554-303-21	SWITCH,	<b>TACTILE</b>	(ARL) (W	/E605S,WI	E705S)	
	S935	1-554-303-21	SWITCH.	TACTILE	(SYNCHE	RO) (WE60	)5S.	
,	0300	1 004 000 21	O1111011,		(		WE705S)	*:
							•	
	S935	1-554-303-21	SWITCH,	TACTILE	(ARL) (W	/A7ESA,W	E505,	*
			• •		. , .		WR505Z)	*
	S936	1-762-567-11	SWITCH.	SLIDE (	OOLBY NE		•	
	S937	1-762-609-11					T WE505)	1
						R) (WE505		1
	S937	1-762-608-11						1
	S938	1-554-303-21	SWITCH,	IAUTILE	(FAUEK)	(WA7ESA	,wE505, WR550Z)	ŀ
	C0/4	1 554 202 21	C/W/ITCU	TACTILE	(DISDIA)	Y/START	,	*
	S941	1-554-303-21	SWIICH,	INVIILE	. (טוטרגא	I/SIMNI	,	1

Ref. No.	Part No.	Description	Remark
S942 S943 S944	1-554-303-21 1-554-303-21 1-554-303-21	SWITCH, TACTILE (RMS/START) SWITCH, TACTILE (CHECK) SWITCH, TACTILE (SET)	
S945 S946 S947	1-554-303-21 1-554-303-21 1-762-609-11	SWITCH, TACTILE (AUTO CAL/STA SWITCH, TACTILE (HIGH/NORMAI SWITCH, SLIDE (DIRECTION MOD	L)
		< TEST PIN >	
* TP801	1-560-060-00	PIN, CONNECTOR 2P	
		< INDICATOR TUBE >	
VFD901	1-517-263-11	INDICATOR TUBE, FLUORESCENT	-
		< VIBRATOR >	
X801	1-579-175-11		****
*	1-634-841-14 1-638-020-11	LEAF SW BOARD (DECK A) (WA7 LEAF SW BOARD (DECK A) (WE5	
		*******	
		< CONNECTOR >	
* CNP81	1-568-850-11	SOCKET, CONNECTOR 7P (WE50	5,WE6 <b>O</b> 5S, <b>W</b> R550Z)
* CNP81	1-568-852-11	SOCKET, CONNECTOR 9P (WA7E	SA,WE705S)
		< IC >	
IC81 IC82	8-749-924-10 8-749-924-10	IC NJL5165K-B (H1) IC NJL5165K-B (H1) (WA7ESA	,WE70 <b>5</b> S)
		< RESISTOR >	
R84	1-249-417-11	CARBON 1K	5% 1/4W
R85	1-249-408-11	CARBON 180	5% 1/4W
R86	1-249-408-11	CARBON 180 (W.	5% 1/4W A7ESA,WE705S)
		< SWITCH >	
S81		SWITCH, PUSH (1 KEY) (STOP)	
S82 S86	1-5/1-281-21	SWITCH, LEAF (CrO2) SWITCH, LEAF (HALF)	
		**********	*****
*	1-634-841-14 1-638-020-11		
		*******	₩NJ3UZ)
		< CONNECTOR >	
* CNP8	1 1-568-850-11	SOCKET, CONNECTOR 7P (WE5	05,WE&05S, WR550Z)

The components identified by mark

⚠ or dotted line with mark ⚠ are
critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque \( \Delta \) sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by mark

△ or dotted line with mark △ are critical for safety.

Replace only with part number specified.

Les composants identifiés par une pour la sécurité.

Ne les remplacer que par u ne pièce portant le numéro spécifié.

## LEAF SW (DECK B)

Ref. No	Part No.	Description			Remark	Ref. No.	Dort No.			
* CNP	81 1-568-852-		NECTOD OD //	MATECAL			Part No.	Description	Remark	
		, , , , , , , , , , , , , , , , , , , ,	NECTON SF (V	WAYESA,W	VE/U55)	⚠ T801 ⚠ T801	1-427-782-1 1-427-783-1		POWER (US,CND,PA)	
		< IC >						THAIRDI ONIVIEN, I	POWER (AEP,UK,G,AUS,MY,SP,	
IC81	8-749-924-1	0 IC NJL5165K	(-R /H1)			<b>△</b> T801	1-427-784-1	1 TRANSFORMER, F	CH) POWER (E)	
IC82		0 IC NJL5165K	(-B (H1) (WA7	ESA WF7	15S)	******	****	***		
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		******	***********	*******	
		< RESISTOR >						ACCESSORIES & F	PACKING MATERIALS	
R81	1-249-414-1	1 CARBON	560	5%	1/04			********	***********	
R82	1-247-818-1		300	5%	1/4W 1/4W		4 470 800 1			
R83	1-247-834-1	1 CARBON	1.3K	5%	1/4W		1-473-598-11	REMOTE COMMAN	IDER (RM-J910) (WA7ESA	
R84	1-249-417-1		1K	5%	1/4W		1-551-734-11		:CND)	
R85	1-249-408-1	1 CARBON	180	5%	1/4W	$\Delta$	1-569-007-11		)N	
<b>D</b> 00						$\Delta$	1-569-008-21		RSION 2P (E)	
R86	1-249-408-1	1 CARBON	180	5%	1/4W		3-798-411-11	The state of the contract	TOWN 2P (CH)	
				(WA7ESA	,WE705S)		0 100 411 11		CTION (ENGLISH/FRENCH/ PANISH/PORTUGUESE) (AEP)	
		< SWITCH >						0	(AEP)	
		< OWN ON >					3-798-411-21		CTION (ENGLISH) (UK)	
S81	1-571-958-11	SWITCH, PUSH	(1 KEY) (STO	P)			3-798-411-41	MANUAL, INSTRUC	TION (GERMAN/DUTCH/	
S82	1-571-281-21	SWITCH, LEAF (	(CrO2)	.,			2 700 411 51	********	SWEDISH/ITALIAN) (AEP)	The second second
\$83	1-571-281-21	SWITCH, LEAF (	METAL)				3-798-411-51	MANUAL, INSTRUC	TION (GERMAN) (G)	
S84	1-571-281-21	,, /	ERASER PRO	OF (SIDE	A))		3-810-716-11	MANUAL INCTING	TION /FNO: 1011) //10 011-	
\$85	1-571-281-21	SWITCH, LEAF (	ERASER PRO	OF (SIDE	A))		0 010 / 10-11	MINIONE, INSTRUC	TION (ENGLISH) (US,CND,	
\$86	1-571-281-21	CMITCH LEAD (	1141.65				3-810-716-21	MANUAL, INSTRUC	AUS,PA) Tion (French) (CND)	
*****	1-3/1-201-2! :***********	SWITCH, LEAF (	HALF)				3-810-716-61	MANUAL, INSTRUC	TION (ENGLISH/FRENCH/	
			******	*****	****			SPAN	IISH/CHINESE) (E,MY,SP,CH)	
		MISCELLANEOU	S				0.040.705.44			
		********	*				3-810-765-11	MANUAL(CONTROL	-A1),INSTRUCTION	Contract of the second
							3-810-765-21	(ENG	LISH) (WE605S:US,AUS,PA)	
<b>△</b> 9	1-551-188-99	CORD, POWER (	E)				0-010-703-21	MANUAL(CONTROL	-AT),INSTRUCTION SPANISH/GERMAN/DUTCH/	- 2
<b>△</b> 9	1-558-945-21	CORD, POWER (	POLAR.SPT-1	) (US,CND	),PA)			SWFDISH/ITALIAN/P	PORTUGUSE/CHINESE)	
<b>▲</b> 9	1-575-651-21	CORD, POWER (	aep,g,my,sp,(	CH)					(WE605S:CND,E,MY,SP,CH)	
<b>△</b> 9	1-696-586-11	CORD, POWER (	ik)			_			_	
<b>⚠</b> 9	1-696-845-11	CORD, POWER (A	AUS)		İ	*	3-932-083-01	CUSHION (EXCEPT V	VA7ESA)	
△ 10	1-569-007-11	ADAPTER, CONVI		)	İ		3-934-283-01 3-934-284-01	CARTON, INDIVIDUA	L (WE505)	
⚠ 10	1-569-008-21	ADAPTER, CONVI	ERSION 2P (C	H)	[		3-334-204-01	CARTON, INDIVIDUA	L (WE605S:US,CND,E,AUS,	
0.5	4 700 000				- 1	*	3-936-086-01	CUSHION (WA7ESA)	PA)	1
65	1-/69-882-11	WIRE (FLAT TYPE	E) (7 CORE) (V			*	3-934-285-01	CARTON, INDIVIDUA	(WF7059)	
				W	/R550Z)			CARTON, INDIVIDUA	[ (WA7FSA)	"Street Them
65	1-769-912-11	WIDE (E) AT TYPE	'\				3-935-092-01	INDIVIDUAL CARTON	I-(WE605S:MY,SP,CH)	
74	1-769-598-11	WIRE (FLAT TYPE WIRE (FLAT TYPE	:) (9 CORE) (V :) (41 CORE)	VA/ESA,W	/E705S)		3-935-644-01	INDIVIDUAL CARTON	(WR550Z)	•
121	1-638-983-11	MOTOR FLEXIBLE	ROARD		į		4-981-643-01	COVER BATTERY (FO	R RM-J910) (WA7ESA	
HP101		DECK ASSY, HEAD	) (PLAYBACK)	(WF505	1	*****	***		:CND)	
				/E605S,W	R550Z)	******	*******	*********	*********	
UD101	A 0004 540 4	DE0// 100/			1					
HP101	A-2004-048-A	DECK ASSY, HEAD	(PLAYBACK)							
				W	705S)					
HRPE10	1A-2004-527-A	DECK ASSY, HEAD	(RECORD/PI	AYRACK/	RACE		,			
M1	X-3365-377-2	MOTOR ASSY (CA	PSTAN)	Z II DAUNI	-IIMOE)					
M2	X-3365-501-2	MOTOR ASSY (RE	EL)		ł					
△ S701	1-692-155-11	SELECTOR, POWE	R VOLTAGE (\	/OLTAGE						
			•	SELECTO	R) (E)					
						`				
					,					( )
					The	components	identified by n	nark Les compos	ants identifiés par une	
					Δ.	or dotted line	with mark $\Delta$	are marque A	Sont critiques pour la	

SP, CH)	
D)	
P)	
")	C
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The components identified by mark	Les composants identifiés par un marque A sont critiques pour l sécurité.  Ne les remplacer que par une pièc portant le numéro spécifié.
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Ref. No.	Part No.	Description	Remark
		HARDWARE LIST	
#1	7-682-548-04	SCREW +BVTT 3X8 (S)	
#2	7-685-871-01	SCREW +BVTT 3X6 (S)	
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	İ
#4	7-685-134-19	SCREW (+ PTPWH) (2.6X8)	
#5	7-621-773-95	SCREW +BVTT 2.6X6 (S)	
#6	7-621-775-00	SCREW +B 2.6X3	
#7	7-627-556-08	SCREW +P 2.6X2.8	